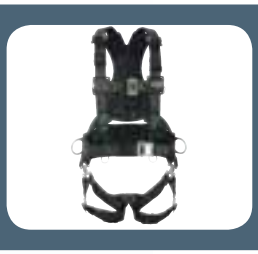
Safety at Height



CONSTRUCTION • TELECOMMUNICATION •
ELECTRICITY • WIND ENERGY •
OIL & GAS • ARBORIST PROTECTION •
TECHNICAL ACCESS AND RESCUE

MILLER®
by Honeywell

MILLER®

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Honeywell Safety Products at a glance

Honeywell Safety Products (HSP) is a leading global manufacturer of personal protective equipment (PPE), including head, hearing, eye/face, respiratory, hand, footwear, clothing and fall protection. Honeywell has an unmatched portfolio of head-to toe protection offerings as well as unprecedented scale and global reach. Focused on delivering innovative safety solutions for high-risk environments, Honeywell enables workers in the manufacturing and services industries to perform their jobs with greater confidence. With its focus on innovation and continuous product evolution, it also helps businesses comply with emerging safety legislation and standards.

Innovation

HSP's continuous efforts in the area of innovation translate into a permanent search for added value for the end user not only in terms of protection, ergonomics, comfort or design, but also in services and training solutions. The innovative solutions HSP offers are based first and foremost on customer feedback and deep knowledge of the end customer's working environment, and the business maintains a laser focus on producing solutions that comply with the most stringent regulations but that workers want to use. Over the years, hundreds of patents have been granted for 'market firsts' and technology innovations that enhance protection.

Miller Safety at height

Miller®, part of the Honeywell Safety Products family of brands, provides safety at height products:

- personal fall protection equipment;
- engineered fall arrest systems;
- collective fall prevention/barrier solutions;
- professional services including training, audits, consulting, product inspection and repairs.

For over 65 years, products labeled with the Miller brand have protected those working at height in a wide range of industries including:

- construction,
- oil and gas,
- telecommunications,
- wind energy,
- transportation,
- mining,
- general industry,
- utilities and more.

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Safety at Height

Miller... Synonymous with Safety, Quality, Reliability and Innovation. Working at height is defined as any working place where, if protection are not taken, a person could fall causing serious injuries or death.

▶ Legislation
European legislation states that fall protection measures must be put in place by the employer of any person working at a height where a fall hazard exists. The regulation also requires that people involved in work at height are competent to do so or if in training, are supervised by a competent person. If it is not feasible to eliminate the hazard using a collective system then personal protective equipment (PPE) must be selected and used. It could be for restraint, work positioning, rescue or fall arrest purposes. This system consists of a full body harness, an intermediate attachment and an anchorage connector. The systems can only be used if a suitable anchorage point is located close to the work area.

▶ Quality
Miller products are designed and tested by full-time, qualified engineers and technicians at a state-of-the-art, in-house testing facility, which not only verifies that specific standards are achieved but often tests beyond the standards to assure the ultimate in safety performance. In addition, core Miller products are third-party tested by independent sources to further certify compliance.

Honeywell Safety Products has successfully earned and continues to retain ISO 9001 certification at its manufacturing facilities. Miller has undergone the most stringent requirements for design and development, production and service, proof of our unwavering and ongoing commitment to consistent quality products and services.

▶ Product Innovation
Miller products are developed in collaboration with workers to fit to their need to provide innovative solutions.
Product innovations and industry firsts:

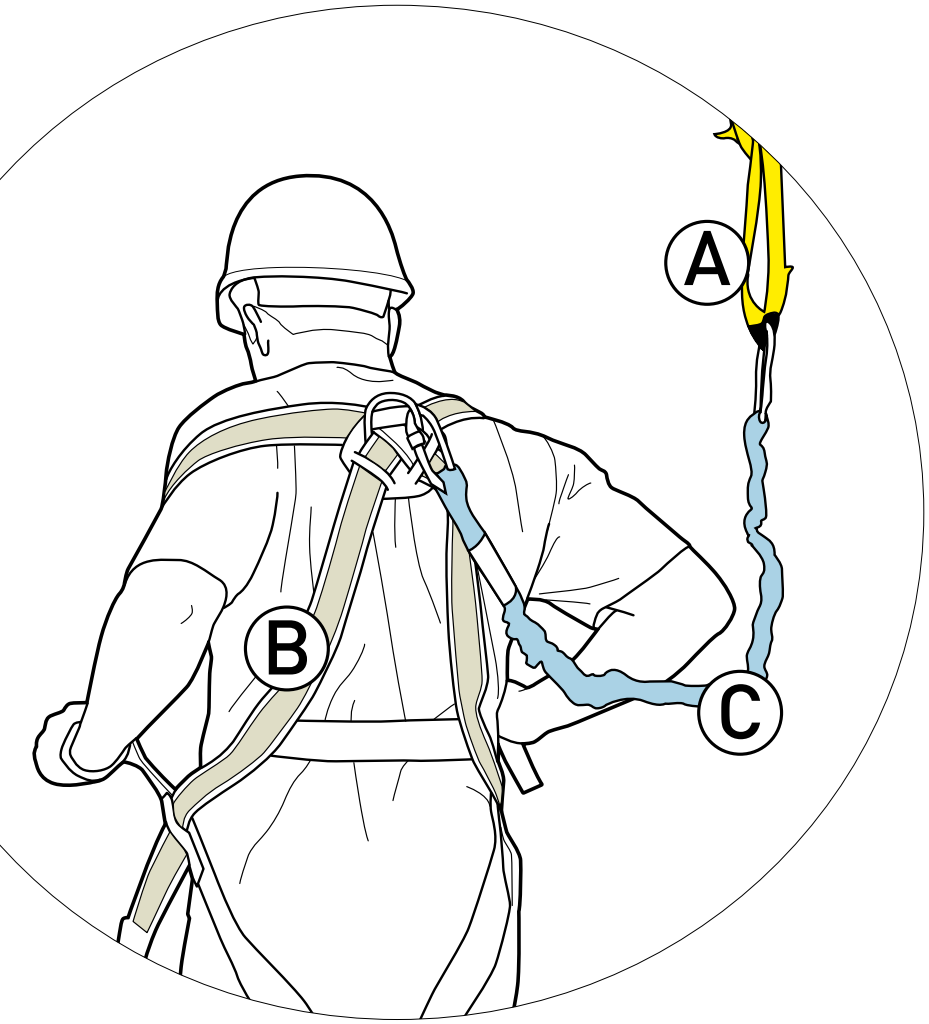
- **Miller Revolution™ Harness**: engineered with 5 patents and more than 11 key product features
- Miller **TurboLite™ Personal Fall Limiter**: unique alternative to shock-absorbing lanyards usable in FALL FACTOR 2
- Miller **Falcon™**: most rugged line of composite self retracting lifelines on the market: No annual factory recertification
- **Edge tested range**: lanyards, Manyards and self retracting lifelines resistant to failure on edges break
- **Miller SafEscape ELITE™ Rescue/Descent device:** the next generation device for rescue and emergency solutions

▶ Expertise in comprehensive problem solving
With our goal of being your comprehensive problem-solving provider, we are committed to meet your fall protection needs with innovative safety solutions mixing products and services such as training, hazards identification and tailor made products.

▶ Worldwide network and availability
With sales offices and training centres throughout the world, Miller is supported at a local level by our highly trained field sales force and dedicated technical support and customer service resources assuring reliable solutions to the most complex and technical requests (also see page 100, 101).

CE

All products are CE certififed



The ABC's

A simple way of remembering the core components of a fall arrest system is the "ABC" of Fall Arrest. Quite simply, without one part, the system does not work.

Ⓐ ANCHOR DEVICES

Definition: Used to join the connecting device (work restraint, fall arrester) to the anchorage, commonly referred to as the "tie-off point" (I-beam, scaffolding or other structural point)

Anchor devices may be one of the 2 types:

1 • Permanent anchor devices (e.g. horizontal cable lifeline, horizontal rail systems...)

2 • Temporary anchor devices (e.g. steel strops, scaffold hooks, webbing anchorage slings, beam grips and dead-weight anchor...)

Ⓑ FULL BODY HARNESS

Definition: Used to hold a worker during & after a fall

- Full body harness must be worn for Fall Arrest situations
- Work restraint belts cannot be used for Fall Arrest

Ⓒ CONNECTING DEVICES

Definition: Used as intermediate attachment to connect the worker's harness to the anchor device (e.g. shock absorbing lanyard, self retracting lifeline, fall limiter, rope grab etc.)

Connecting devices may be one of the 2 types:

1 • Fall Restraint: a fall restraint system prevents workers from reaching a hazard

2 • Fall Arrest: a fall arrest system allows workers to reach a hazard and then protects them if they should fall

Working at height categories

Your working at height environment reflects the equipment that must be used. The categories summarised below have been defined by European Standards and are used as the base for work at height operations.

FALL ARREST

Equipment used to stop falling worker in the event of a fall from height.

Typical Fall Arrest System consists of:

- Anchor devices
- Full body harness
- Connecting devices

WORK IN SUSPENSION*

Designed to lower and support a worker, allowing a hands free work environment.

Typical Suspension System consists of:

- Anchor devices
- Full body harness
- 2 ropes
  - equipped with a descender
  - equipped with a rope grab

WORK RESTRAINT

Equipment used to prevent the worker from approaching a position from which they can fall.

Typical Work Restraint System consists of:

- Anchor devices
- Work restraint belt or full body harness
- Connecting devices (restraint lanyard)

RESCUE

Rescue & Evacuation of an injured high access worker is mandatory consideration for work at height operations.

Typical Rescue System consists of:

- Rescue & evacuation device

WORK POSITIONING*

Equipment holding an operator in their place of work.

Typical Work Positioning System consists of:

- Anchor devices
- Full body harness with a positioning belt
- Connecting devices (work-positioning lanyard)

HARNESS TYPE	European Standard	Work Restraint	Work Positioning	Fall Arrest	Work in Suspension	Rescue
Work Positioning Belt	EN 358	ok	ok			
Full Body Harness	EN 361	ok		ok		
Full Body Harness	EN 361/EN 358	ok	ok	ok		
Multifunction Full Body Harness	EN 358/EN 813 EN 361	ok	ok	ok	ok	ok

* The positioning and suspension systems are not designed for Fall Arrest. A back-up Fall Arrest system must be used.

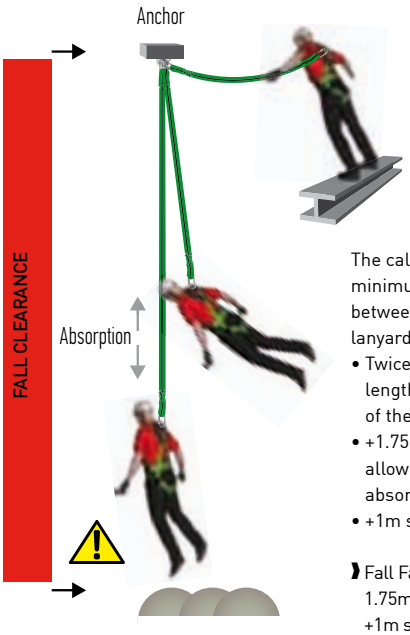
Fall Protection Fundamentals

Getting to grips with the work hazards!

There are **three fall factors** in fall arrest that relate to the position of the anchorage point. They are used **to determine the potential fall distance of a worker** and so ensure that there is no risk of contact with the lower level in the event of a fall. When possible, the worker should always use an anchorage point at shoulder level or above (Factor 1 or 0). A higher anchorage point will reduce the fall distance and therefore significantly reduce the risk of injury on the body due to the impact forces of a fall.

▼ Fall clearance calculations

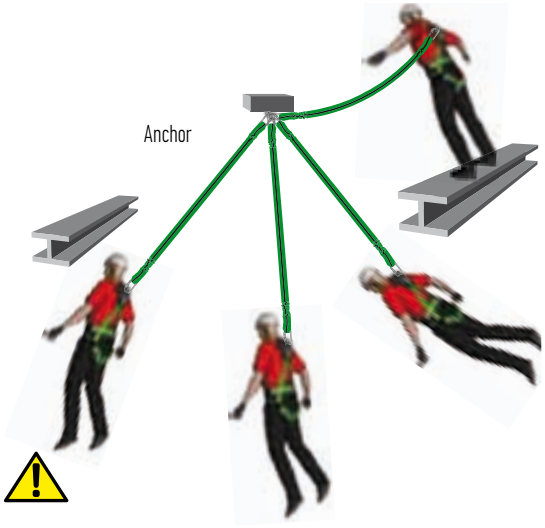
This is the distance a person will fall when connected to a fall arrest attachment point. It is related to the Fall Factors (see Fall factor). Many situations can develop and it is ultimately the responsibility of the worker to ensure that there is a suitable fall clearance available. In order to calculate this, the worker must know the distances specified below, and it is also strongly recommended they attend a Miller safety at height training course.



The calculation below gives the minimum fall clearance required between the anchorage point of the lanyard and the lower level.

- Twice the length of the lanyard: length of the lanyard and the height of the worker
- +1.75m deceleration distance to allow for the elongation of the shock absorber
- +1m safety margin

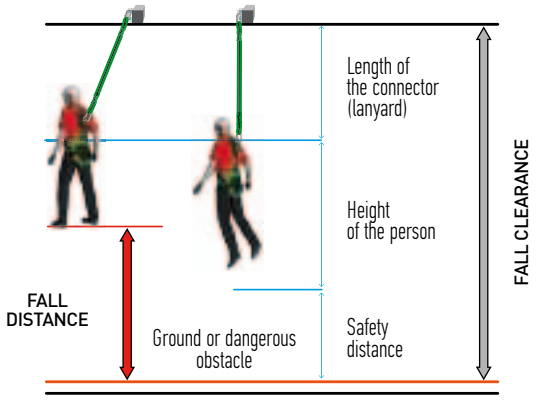
Fall Factor 2 = 2 x lanyard lengths + 1.75m (max. Energy absorber) +1m safety
Example: 2m lanyard
(2+2) + 1.75 + 1 = 6.75m



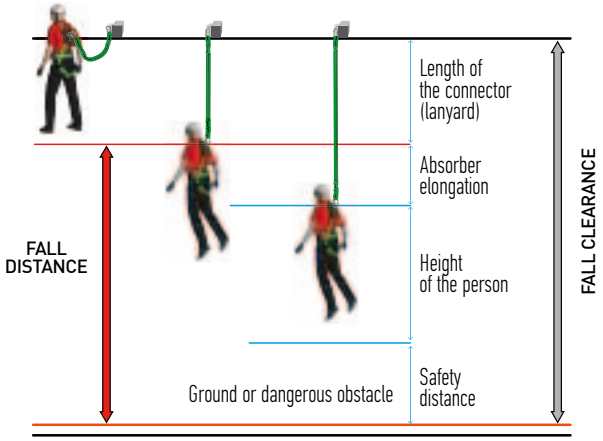
▲ The Pendulum effect

When the lifeline is not anchored vertically over the work place, the worker will pendulum in the event of a fall and may be injured by hitting the ground or an obstacle to the side. If it is not possible to use an anchorage point close to the work station, two anchorage points either side of the worker can be used to prevent any swing.

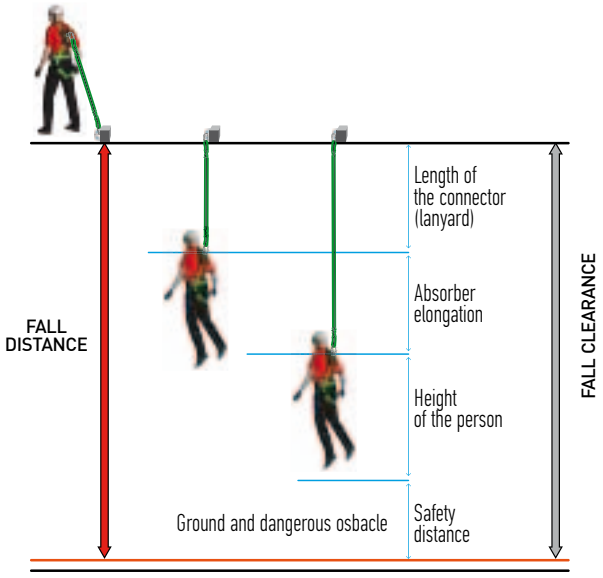
Understand your fall factors to reduce the risks!



◀ Fall Factor 0
Anchorage is overhead and the lanyard is taut between the anchorage point and the worker. The fall clearance is reduced as shown, with a maximum fall distance of 1.75m (the length of shock absorber, if deployed).



◀ Fall Factor 1
Anchor point is level or above the harness attachment point allowing a fall equivalent to the length of the lanyard before the energy absorber deploys (max. 1.75m) to arrest the fall.



◀ Fall Factor 2
Anchor point is at or below the feet of the worker allowing a fall equivalent to twice the length of the lanyard before the energy absorber deploys (max. 1.75m) to arrest the fall.

IF IN DOUBT: FALL LIMITERS REDUCE FALL CLEARANCE ❮ 3M
A fall limiter or self-retracting lifeline will stop a fall in centimetres and is therefore the ideal solution for low-level work where a shock-absorbing lanyard is unable to stop the worker from hitting an obstacle below.

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CONSTRUCTION

WIND ENERGY

ROPE ACCESS

TELECOMMUNICATION

OIL & GAS

CONFINED SPACE

ELECTRICITY

INDUSTRY

RESCUE

Roofing

The installation, maintenance or removal of roof coverings, guttering etc, as well as the movement of persons along a roof can prove particularly hazardous. Falling through a weak roof structure or slipping down a sloping roof can typically lead to serious injury or fatality. Where scaffolding, guardrails, safety nets or similar collective fall protection methods are not feasible, the person should wear fall protection equipment or restraint equipment, attached to a reliable anchorage point. This suitable anchorage point and restraint or fall protection equipment depends on the type of work and roof: flat or sloping roof, whether on edges or with a limited access area.

	REF.	PRODUCT
A	10 028 47	DuraFlex® MA02 harness (See p43)
B	10 117 42	Falcon™ block (See p58) – certified for horizontal application with steel sling 10 028 97
C	10 082 73	Restraint lanyard (See p72)
D	10 076 10	Serpent temporary lifeline (See p84)
E	10 029 16	Webbing sling (See p82)
F	10 118 95	Roofing kit (See p95)
G	10 310 13	Throwing line
H	10 309 91	Throwing bag 0,25 kg
I	10 179 16	Edge Manyard® (See p75)

CONSTRUCTION

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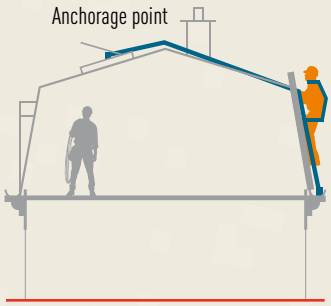
Sloping Roofs

When accessing a roof for maintenance, framing, roofing, etc. it will often be necessary to work on a sloping roof. Normally, sloping roofs are found in domestic construction when building houses or undertaking roof maintenance for water tightness, etc. For these operations workers need specific fall protection equipment and accessories to create anchorage points to work safely at height. For occasional use, workers may use a temporary anchorage line and rope grab. For long term use, a temporary lifeline should be installed.

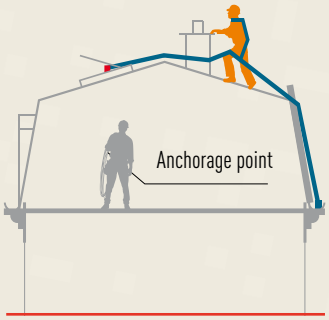
Steps to install lifeline

1 • Create safe anchorage point on the ground or frame
2 • When needed, throw the line over the window or over the roof
3 • Fix the anchorage line – if throwing line used, attach the anchorage line to the throwing line and pull it back
4 • Fix the rope to the anchorage point created
5 • Connect your harness to the rope grab
6 • Access the work area

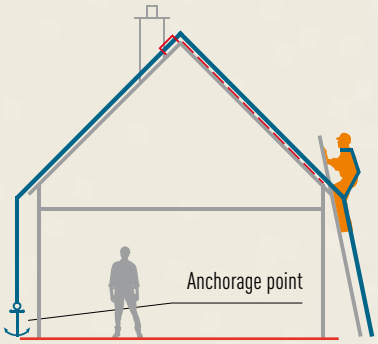
	REF.	PRODUCT
A	10 142 37	Miller Revolution™ R2 harness (See p42)
B	10 076 40	Stick run (See p78)
C	10 076 14	Anchorage line 20m (See p79)
D	10 076 10	Serpent temporary lifeline (See p84)
E	10 118 95	Roofing kit (See p95)
F	10 310 13	Throwing line
G	10 309 91	Throwing Bag 0,25 kg



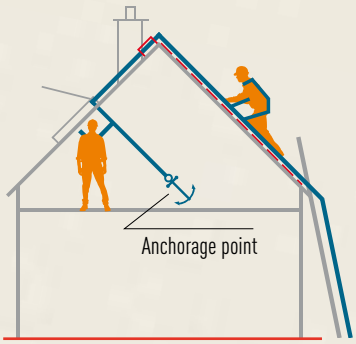
Mansard access – Work on gambrel



Mansard access – Work on roof



Access with ladder



Roofing access

Steel Erector

During the erection of steel frameworks, the operator is exposed to narrow working surfaces at height. Particular fall hazards exist as further materials are added onto the steel (roof, concrete) as the worker is exposed to an unprotected leading edge. Work is usually carried out at the top level of the structure and so an anchorage point above foot level is often unavailable – This leads to safety issues in terms of potential fall clearances and increased fall arrest forces. Much of the steelwork is erected from mobile elevating work platforms. Fall protection equipment is recommended to ensure the safety of the operators.

	REF.	PRODUCT
A	10 028 47	DuraFlex® MA02 harness (See p43)
B	10 180 13	TurboLite block (See p61)
C	10 179 16	Manyard® edge (See p75)
D	10 076 10	Serpent temporary lifeline (See p84)
E	10 029 16	Webbing sling (See p82)
F	10 070 66	Beam glide connector (See p84)

CONSTRUCTION

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Scaffolding

Fall arrest equipment is worn by the scaffolder during the erection, alteration and dismantling of scaffolding. The scaffolder is limited in the choice of anchorage point. It is important to use an anchorage point as high as possible in order to reduce the space clearance and the risk of injury in the event of a fall. Nevertheless, there are usually no anchorage points above the worker when erecting scaffolding; scaffolder is limited to a Factor 2 connection below the feet. Comfort and full freedom of movement are essential for the scaffolder, who will wear this equipment all day long. It is necessary to use products tested and conforming to fall factor 2 when connecting at foot level.

B

C

A

D

E

F

	REF.	PRODUCT
A	10 142 37	Miller Revolution™ R2 harness (See p42)
B	10 180 13	TurboLite block (See p61)
C	10 297 16	Twin Turbo system (See p61)
D	10 104 70	Barracuda (See p74)
E	10 168 47	Edge lanyard (See p75)
F	10 281 34	TurboLite kit (See p94)

CONSTRUCTION

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Pylons & Towers

For maintenance work on towers and pylons, made of steel, wood or concrete, the operator is required to temporarily access the structure. Access may be made possible by means of a permanent fall protection system such as a rigid rail system, or by a temporary rope anchorage line or use of forked lanyard technique to climb. The choice of anchor points and the setting up of the rope are important stages. When a lead climber moves up a structure, the risk of a fall is present. Once the rope is set by the lead climber the other climbers can ascend the structure protected by this anchorage line.
The ultimate Telecom worker's harness is Revolution™ with the PivotLink™ connection located at hip level for a smooth movement during ascent or descent. Pylon work can be, physically demanding and the duration of the work can be a significant factor. Once in position on the structure, the worker requires a reliable hands-free fall protection system that allows a wide range of movement using a work-positioning lanyard and a suitable harness.

B

A

C

D

E

F

	REF.	PRODUCT
A	**10 034 39**	RM harness (See p46)
B	**10 142 52**	Miller Revolution™ R5 harness (See p47)
C	**10 032 33**	Forked lanyard (See p71)
D	**10 076 40**	Stick run (See p78)
E	**10 076 14**	Anchorage line 20m (See p79)
F	**10 053 24**	Miller Manyard® (See p74)

TELECOMMUNICATION

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Transport

Access to a high tension electricity pylon from below is often problematic and the choice of anchor points and setting up the rope are important stages. It must be accessible, both ascending and descending, to carry out maintenance and repair operations. In order to set up an anchorage line, the worker can use a double-legged lanyard climbing technique to install a progressive lifeline from the ground. Access to height is achieved using several techniques (lifelines, systems, etc.) to which workers can be secured in a fall protection system. Once at height, there are no working platforms and the worker must have full freedom of movement to twist and reach the work sites, as well as maximum support when reaching out and using tools with an extension pole. In case of emergency, workers must have equipment available to evacuate the structure or to carry help to a casualty of a fall.

	REF.	PRODUCT
A	10 142 52	Miller Revolution™ R5 harness (See p47)
B	10 180 13	TurboLite block (See p61)
C	10 117 42	Falcon™ block – certified for horizontal application with steel sling 10 028 97 (See p58)
D	10 031 11	Reglex 3000 (See p73)
E	10 032 33	Forked lanyard (See p71)
F	10 076 40	Stick run (See p78)
G	10 076 14	Anchorage line 20m (See p79)
H	10 029 16	Webbing sling (See p82)
I	10 029 79	Telescopic pole (See p84)
J	10 028 99	Crochevit (See p83)

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ELECTRICITY

Distribution

Distribution activity involves channelling the electricity sold by the various energy suppliers to end-customers: domestic, industrial, retail, etc. Poles (made of concrete, wood or steel) are intended to support medium & low tension power lines. The structure of a pole is not ideal for climbing and this can be physically demanding, so the duration of the work is important. As a consequence fall protection and work positioning equipment must be specifically adapted for use on a pole. In position, the worker requires a reliable hands-free fall protection system that allows him a wide range of movement.

	REF.	PRODUCT
A	10 142 52	Miller Revolution™ R5 harness (See p47)
B	10 180 13	TurboLite block (See p61)
C	10 031 11	Reglex 3000 (See p73)
D	10 168 50	Edge forked lanyard (See p75)
E	10 076 40	Stick run (See p78)
F	10 076 14	Anchorage line 20m (See p79)
G	10 029 79	Telescopic pole (See p84)
H	10 028 99	Crochevit (See p83)

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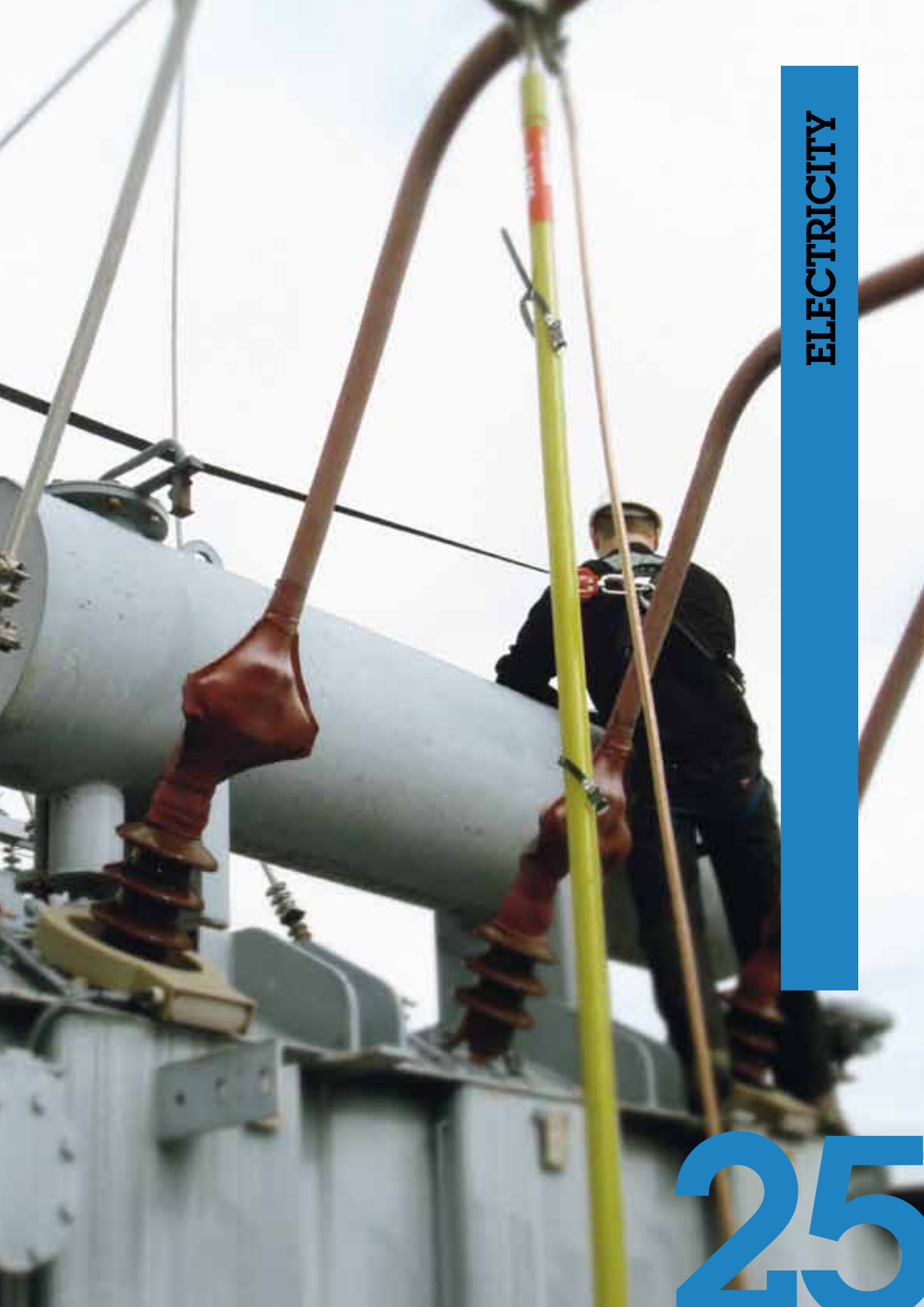
ELECTRICITY

Transformers

On the electricity distribution route, from power stations to end customers; domestic, industrial, retail, etc. different transformers are used to amplify or reduce voltage at stages along the network from very high power to medium and low power. The size and height of transformers depends on the power level to be transformed.
Each transformer must be accessible, both ascending and descending, to carry out maintenance operations (replacement of insulator, repair work, painting...). Hazards on transformers include edges, electrical arc and limited clearance. Safe access and maintenance work on electricity transformers is a key issue. The Totem DuraHoist anchorage has been especially designed to provide a safe anchorage point during maintenance work on electricity transformers.

	REF.	PRODUCT
A	10 142 36	Miller Revolution™ R2 harness (See p42)
B	10 180 13	TurboLite block (See p61)
C	10 167 95	Falcon™ block 6M (See p61)
D	10 076 40	Stick run (See p78)
E	10 295 02	Anchorage line 20m (See p79)
F	10 295 02 10 295 03	TOTEM DuraHoist anchorage (See p84)
G	10 029 79	Telescopic pole (See p84)
H	10 028 99	Crochevit (See p83)
I	10 029 97	KIT BLOCK (See p97)



ELECTRICITY

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Tower – Nacelle

The rapidly growing Wind Energy Industry presents a variety of safety challenges for those working at height. Whether in turbine construction, maintenance or rescue/ evacuation, providing solutions that enhance worker safety in the wind energy industry is a key objective for Miller. In particular providing lightweight and comfortable equipment, quick-operating descent devices along with self-rescue equipment, a range of anchor points/ connectors for safe access, vertical rope lifelines and rope grabs for special applications that conform to international standards and are resistant to the rigorous conditions of work in onshore and offshore windmills.

	REF.	PRODUCT
A	**10 148 08/WIND**	Miller Revolution™ R7 WIND harness (See p45)
B	**10 148 08/OFFS**	Miller Revolution™ R7 OFFS harness (See p45)
C	**10 179 16**	Manyard® edge (See p75)
D	**10 297 16**	Twin Turbo system (See p62)
E	**10 288 12**	Falcon™ block Offshore kit available on demand. (See p58)
F	**10 287 85**	SafEscape ELITE Rescue/Descent device (with 180m rope) (See p88)
G		Söll Anchorages

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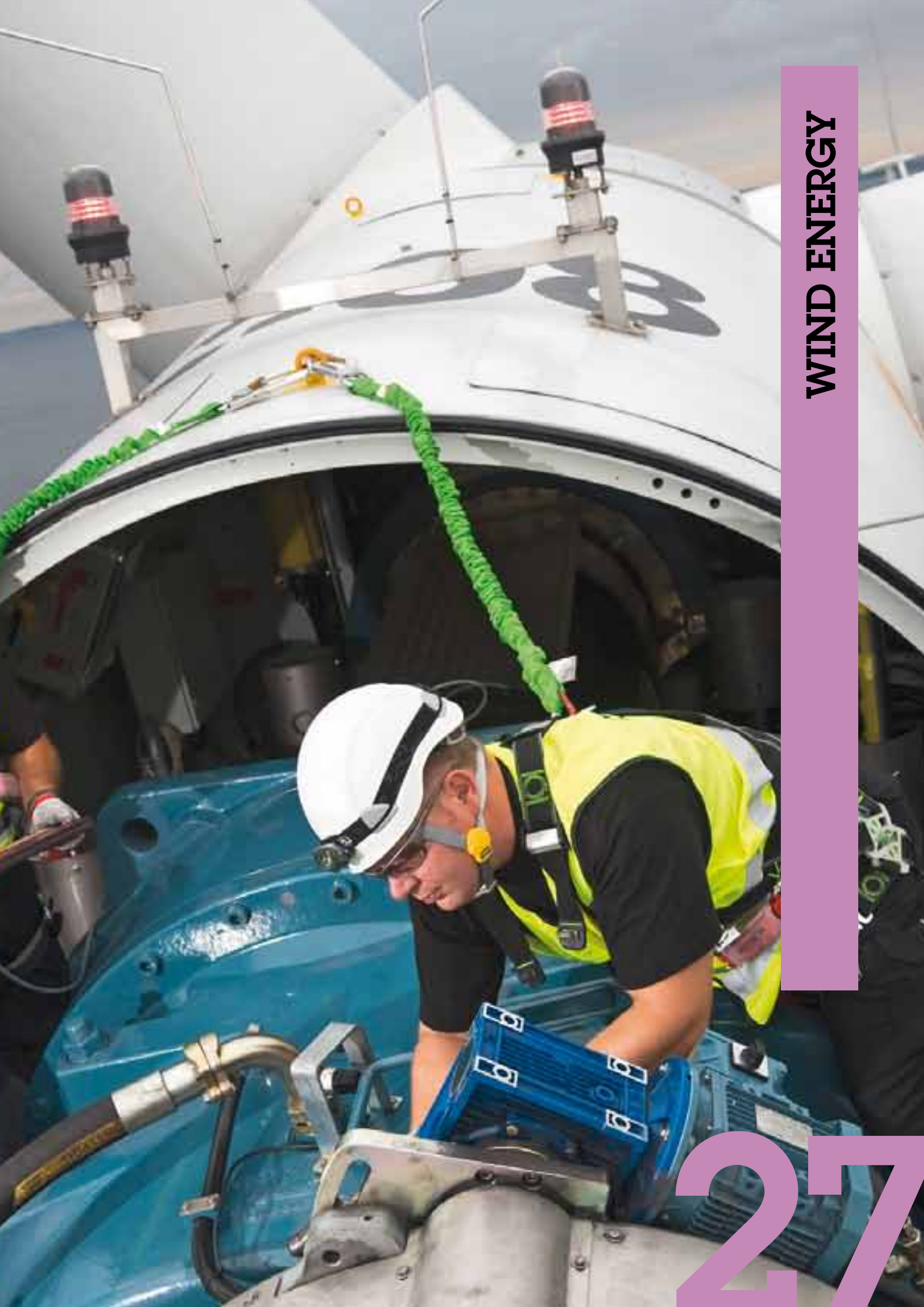

WIND ENERGY

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Production & Loading Bay

When working in an explosive atmosphere, ATEX certified fall protection products and systems should be installed and used in areas including loading bays, production sites and storage tanks to secure operators working on top of tankers or at height in refineries, to protect against the risk of a fall. Solutions developed by Miller have been designed to:
- Avoid the risk of explosion due to sparks.
- Avoid electrostatic discharge: In an explosive environment, any object or person who is potentially charged with electricity may cause a static discharge and risk explosion when in contact with a person or object with a different electric potential.

Miller, in order to respond to this risk, has created a complete fall protection system that meets the CE EN795 class C standards for lifelines, EN361 for harnesses and EN360 for fall arrest blocks as well as the European directive ATEX 94/9/EC according to EN13463-1 (2001) and EN13463-5 (2005) standards.

	REF.	PRODUCT
A	10 150 75	ATEX Harness (See p44)
B	10 158 59	Forked ATEX lanyard (See p71)
C	10 179 21	ATEX Falcon™ block (See p58)

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OIL & GAS

Rope Access

Rope access is the means of accessing difficult areas or areas normally inaccessible by conventional means. It involves work in suspension through the use of a personal positioning system. The worker requires a high degree of competence and must undertake suitable training to ensure the task is carried out safely. The Miller brand provides technical harnesses and hardware to perform in all environments and is ideally suited to the vertical world of industrial rope access. The list below provides the basic personal protective equipment required for an operator to work in this environment. Depending on the duration of the suspension period, it is essential to choose a suitable harness: a harness featuring a rigid seat may be a better and safer solution.

C

A

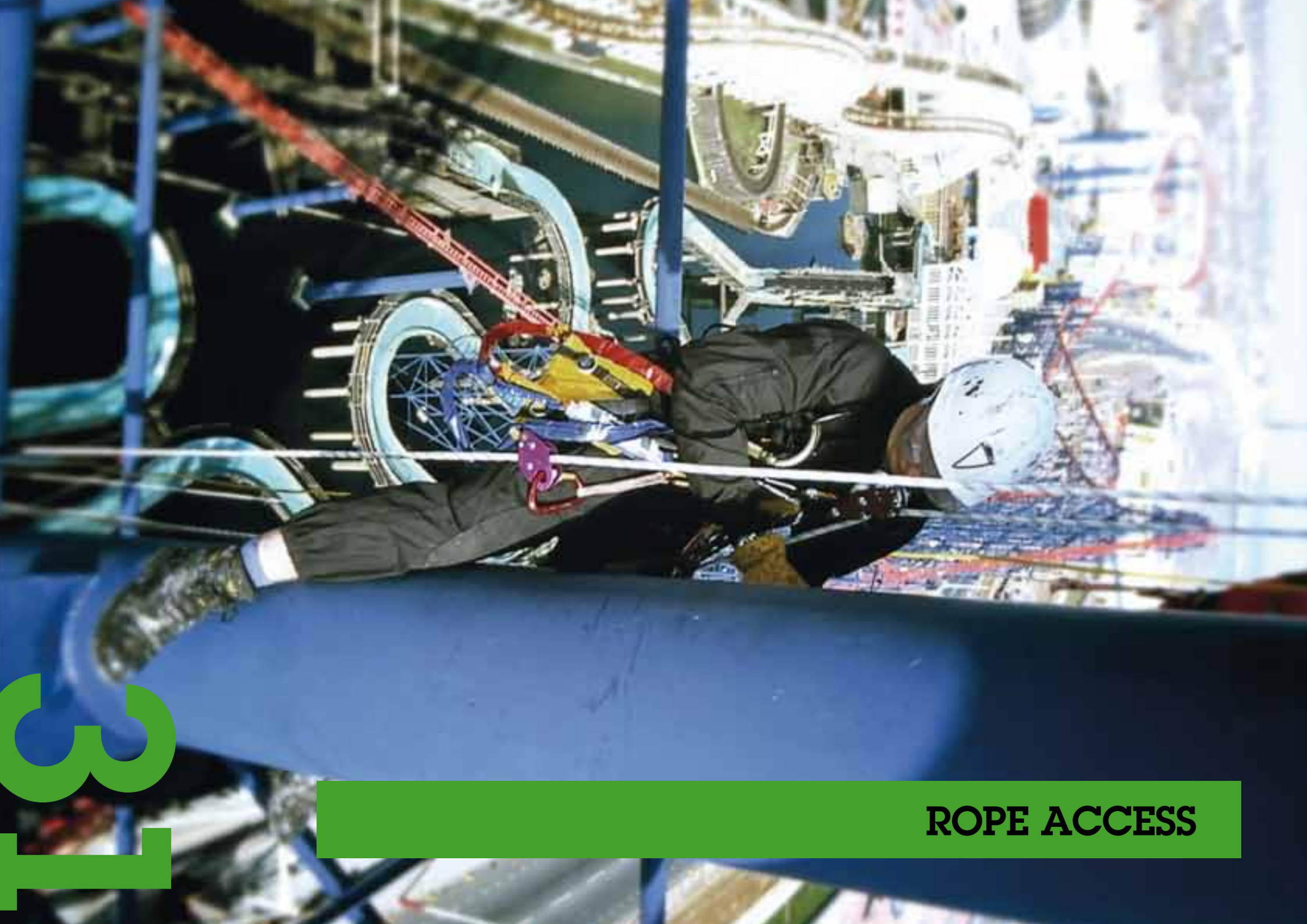
E

D

B

F

	REF.	PRODUCT
A	**10 144 32**	Ropax harness (See p50)
B	**10 076 14**	Anchorage line 20m (See p79)
C	**10 070 57**	ProAllp (See p87)
D	**10 070 31**	Rocker (See p78)
E	**10 070 59**	Cowstail sling (See p96)
F	**10 070 56**	Climber seat (See p97)



13

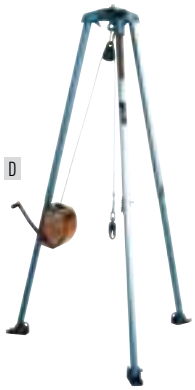
ROPE ACCESS

Confined Space

Movement in confined spaces requires a system to be put in place to protect the worker during the descent as well as the ascent. Protection is provided by a second operative during the operation. This is necessary because, in case of an incident it must be possible to lift the affected person out without delay. The use of a pulley / hauling system for the descent as well as for the ascent is thus essential.
It is light, flexible and, in particular offers total independence.

The access to confined space requires the installation of a system for safely descending then for climbing out again when work is complete.

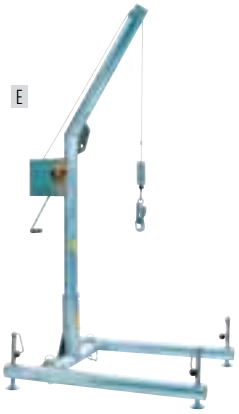
Modular design allows the use of components in various configurations and applications. Multiple winches and/or lifeline systems may be mounted as required to suit the working conditions.


D

A

B

C


E

	REF.	PRODUCT
A	10 144 32	Ropax harness (See p50)
B	10 051 49	MightEvac® Rescue block (See p59)
C	10 114 71	Pulley (See p93)
D	10 050 41	Tripod (See p92)
E	10 029 20	Potex (See p93)

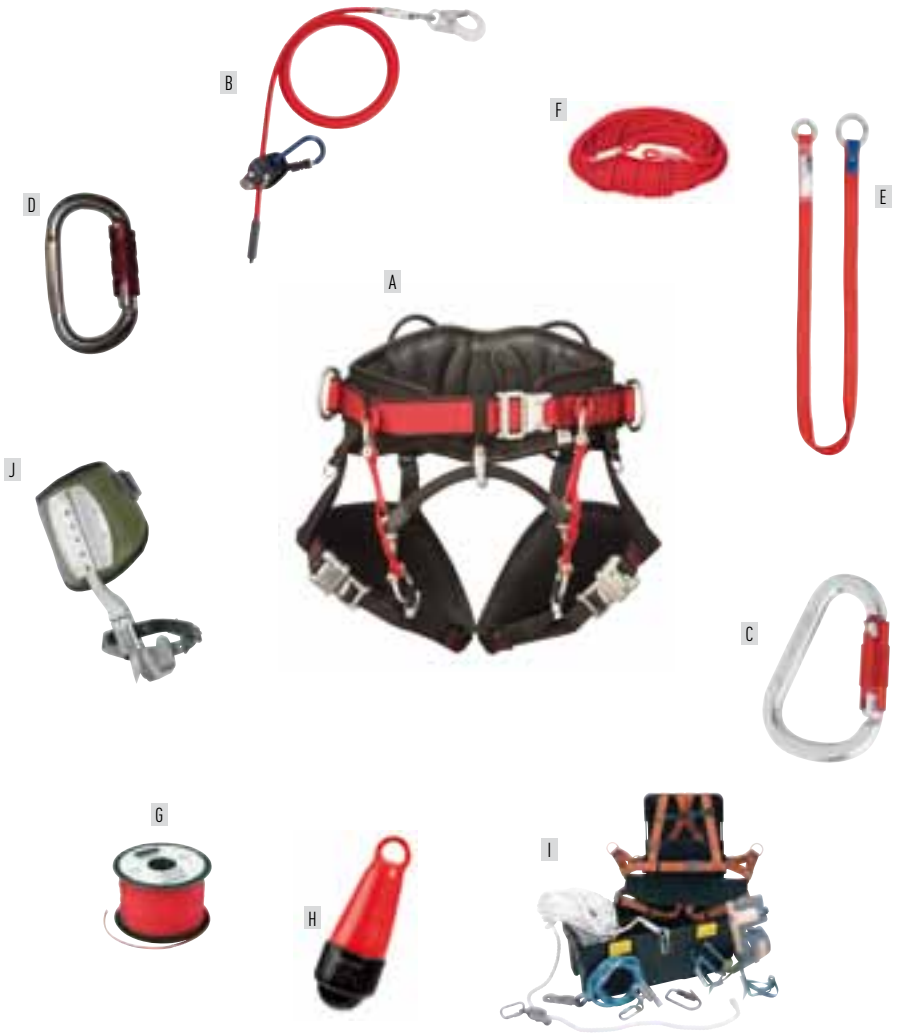
CONFINED SPACE

Arborist Protection

Tree-felling and heavy pruning require a secure access and position at height. The equipment is designed to hold the worker in place whilst he handles the necessary tools, such as a chainsaw, which can often be very heavy and cumbersome. Miller equipment offers the climber a safe and convenient means of gaining access to a tree. Specific climbing techniques have been developed to promote full freedom of movement whilst protecting the tree from any unnecessary damage.

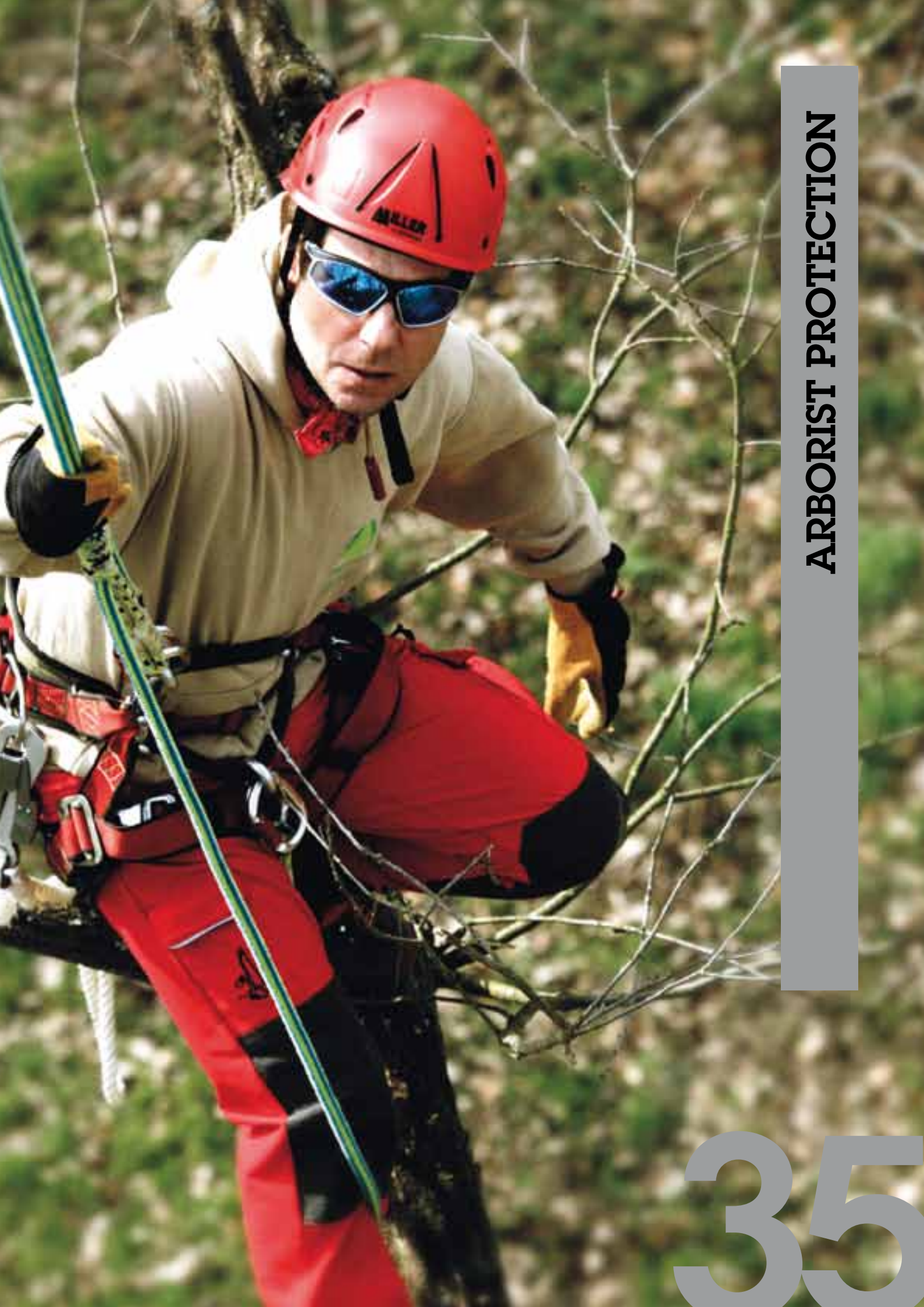
"The "Butterfly" has been my harness of choice since the day it was created. Its lightweight yet durable design makes it a great choice for both field work and competition climbing."

Mark Chisholm
World Champion U.S.A. Tree-pruning World Champion



	REF.	PRODUCT
A	10 168 24	Morpho
B	10 140 21	Rocker lanyard (See p78)
C	10 189 71	Frelon karabiner (See p81)
D	10 286 30	Cigale karabiner (See p81)
E	10 136 21	Cambium saver
F	10 117 23	Amazon climbing line (See 79)
G	10 310 13	Throwing line
H	10 309 91	Throwing bag 0,25 kg
I	10 032 78	Tree Pruning kit
J	10 149 91	Spikes

MORE INFORMATION ON TREE PRUNING ON DEMAND.



ARBORIST PROTECTION

Technical Access and Rescue

The rescue and evacuation of an injured high access worker is a mandatory consideration for work at height operations. From pre-planned rescue operations, such as those performed by global fire and rescue teams, to the on-site un-planned rescue of a fallen worker, the Miller range of rescue products offer versatile and effective rescue systems. The systems can be developed to allow a casualty to be raised or lowered, either in their own harness, a temporary rescue sling, an evacuation splint (perfect for confined spaces) or a rigid stretcher.

"My role involves life-critical operations on a daily basis. The geography of our area is extremely varied, from dockyards and seacliffs to remote exposed moorland . The Miller rescue products give my team and I the gear and confidence we need to fulfil our commitment..."

Jason Keveren
Leading Firefighter, Rescue Team Leader,
Devon Fire and Rescue Service

	REF.	PRODUCT
A	10 070 22	Ibex harness (See p51)
B	10 144 32	Ropax harness (See p50)
C	10 287 72	Safescape ELITE Rescue/Descent device (See p88)
D	10 076 17	Anchorage line (See p88)
E	10 070 38	Aluminium pulley (See p90)
F	10 178 24	Telescopic pole (See p89)
G	10 070 57	ProAllp (See p87)
H	10 070 31	Rocker (See p78)
I	10 070 46	Evac Body Splint (See p91)

TECHNICAL ACCESS AND RESCUE

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PRODUCTS

STANDARDS*

EN12841/C	Rope access systems: back-up devices
EN341	Descenders
EN353-1	Guided Type Fall Arresters Rigid Anchorage Line and Rails
EN353-2	Guided Type Fall Arresters Flexible Anchorage Line
EN354	Lanyards
EN355	Shock Absorbers
EN358	Work Positioning Systems
EN360	Retractable Type Fall Arresters
EN361	Full Body Harness
EN362	Connectors
EN795(b)	Anchorage Devices – Class B
EN813	Sit Harness
EN363	Fall Arrest Systems

*Contact Honeywell for any further information

HARNESSES / Introduction

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FALL ARREST HARNESSES

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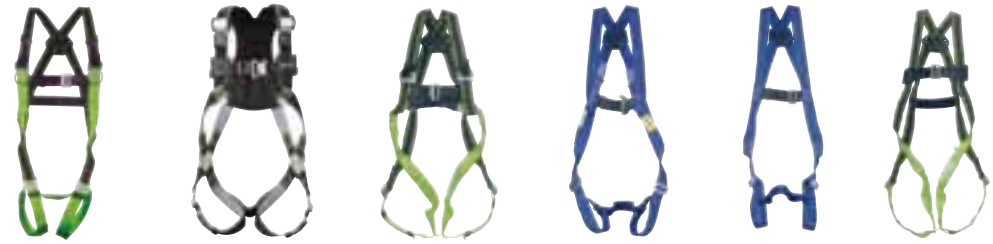
SPECIAL FALL ARREST HARNESSES,
Kevlar, Atex, High visibility vests, Wind energy

p46/49
FALL ARREST/ WORK POSITIONING HARNESSES

p50/51
SUSPENSION HARNESSES



Adjustment Buckles

Mating Buckle. To connect the mating buckle, push the centre bar buckle completely through the square link and allow it to fall into place. Pull web end to tighten.

Quick-Connect Buckle. For belt, waist and leg straps interlock for quick easy donning and feature a dual-tab release mechanism to prevent accidental opening.

Cam Buckle. The locking tabs of the cam buckle trap the webbing to prevent unintentional slippage. Lift the locking tab for easy, one-hand adjustment/release. Promotes proper snug fit, will not slip or misadjust.

Webbing

DualTech™ Webbing.
Donning made easy with two-sided, contrasting colour webbing and textures.
• Webbing engineered with shape retention memory for a more comfortable fit.
• Unique circular tack provides greater strength, and contrasting colours make inspection easier.

DuraFlex® Webbing.
• Patented elastomer webbing specially formulated to stretch with the user's movements so there is no bunching or binding.

Anchorage Points

How to determine an anchorage point ?
1 point = dorsal anchorage / 2 point = dorsal and sternal anchorage / 3 point = dorsal, sternal and ventral anchorage / + workpositioning = 2 side anchorage points

Side D-Rings on belt.
A work-positioning lanyard is attached to the side D-rings to enable the operator to work with his hands free. These are not suitable for fall arrest.

Front D-Rings and Front Anchorage Loops. Used for a comfortable, fall arrest anchorage point, usually in conjunction with a guided type fall arrester. Used for a variety of confined space, rescue, climbing.

Belt, Leg & Seat strap. A padded belt is recommended for work positioning. The greater support increases worker productivity. Padded leg straps for suspension work: it distributes the load across the buttocks and back. Seat strap for worker comfort during prolonged periods of work in suspension.

Fall arrest harnesses

Fall Protection is about protecting people who are working at height. Falls from height are the second most common cause of accidents in the work place and cost significant amounts every year to employers. The purpose of a fall arrest system is to safely stop a fall from height and to hold the worker until he can be recovered. A full body harness that conforms to EN361 is the form of body wear used in fall arrest applications.

DURAFLEX® MA08

● 2 POINT
Rear & front anchorage

▲ BENEFITS: Elasticated webbing
- Greater comfort
- Increase durability

▶ FEATURES: Stretch webbing
- DuraFlex® elastomer webbing
- Webbing repels water, oil, grease and dirt
- Manual chest and leg buckles
- 2 sternal D-rings

REF.	SIZE
10 028 54	S
10 028 53	M/L
10 049 59	XXL

❱ Conforms to EN361

MILLER REVOLUTION™ COMFORT R2

QUICK FITTING HARNESS WITH 8 UNIQUE INNOVATIONS

● 2 POINT
Dorsal D-ring and front anchorage loops

▲ BENEFITS: Conforms to users movements
- Rotating PivotLink connections at waist level
- Full freedom of movement
- Integrated accessories system
- Custom identification labels

▶ FEATURES: Turning point in design
- Elasticated DuraFlex® webbing*
- ErgoArmor™ padded back shield
- Quick fixing Cam buckles for easy fit
- Quick connect buckles at chest & leg
- Web finials to store spare webbing
- Self-contained label pack

REF.	SIZE
DuraFlex® stretch webbing	
10 142 36	S/M
10 142 37	L/XL
10 142 38	XXL**
DualTech webbing	
10 142 39	S/M
10 142 40	L/XL
10 142 41	XXL**

❱ Conforms to EN361

DURAFLEX® MA04

● 2 POINT
Rear and front anchorage

▲ BENEFITS: Elasticated webbing
- Greater comfort
- Increase durability

▶ FEATURES: Stretch webbing
- DuraFlex® elastomer webbing
- Webbing repels water, oil, grease and dirt
- Manual chest and leg buckles
- Front anchorage soft webbing loops

REF.	SIZE
10 028 50	S
10 028 49	M/L
Available with QCB	
10 076 11	M/L
10 076 12	XL

❱ Conforms to EN361

*AVAILABLE IN DUALTECH WEBBING
**MADE ON DEMAND

TITAN™

● 2 POINT
Front and rear anchorage (front webbing loops)

▲ BENEFITS: Lightweight
- Fully adjustable design so one size fits all
- Sliding back D-ring for a comfortable fit

▶ FEATURES: Ensuring safety and compliance on the jobsite
- Durable polyester webbing
- Sub-pelvic strap keeps the wearer upright
- Manual chest and leg buckles
- 45 mm chest strap with metal buckle

REF.
10 118 91

❱ Conforms to EN361

TITAN™

COST EFFECTIVE CHOICE FOR FALL PROTECTION

● 1 POINT
Rear anchorage

▲ BENEFITS: Lightweight
- Fully adjustable design so one size fits all
- Sliding back D-ring for a comfortable fit

▶ FEATURES: Ensuring safety and compliance on the jobsite
- Durable polyester webbing
- Sub-pelvic strap keeps the wearer upright
- Manual chest and leg buckles
- 45mm chest strap with metal buckle

REF.
10 118 90

❱ Conforms to EN361

DURAFLEX® MA02

● 1 POINT
Rear anchorage

▲ BENEFITS: Elasticated webbing
- Greater comfort
- Increase durability

▶ FEATURES: Stretch webbing
- DuraFlex® elastomer webbing
- Webbing repels water, oil, grease and dirt
- Manual chest and leg buckles

REF.	SIZE
10 028 48	**S**
10 028 47	**M/L**

❱ Conforms to EN361

Special fall arrest harnesses

For specific requirements: welding, ATEX, wind energy...

KEVLAR®*

IDEAL SOLUTION FOR WELDING, FIREFIGHTING

● 1 POINT
Rear anchorage D-ring

▲ BENEFITS: Strength and high temperature resistance
- Nomex*® webbing protects against weld spatter and sparks
- Contrasting colours which facilitate inspection
- Maximum temperature: 177°C

▶ FEATURES: Exceptional heat and fire resistance
- Blue Nomex® flame-retardant webbing
- Yellow Kevlar® inner core
- Sub-pelvic strap
- Adjustable leg straps
- Manual chest and leg buckles
- Clips on shoulder straps for lanyard when not in use

REF.	SIZE
751K Single adjustment	
10 123 33	S/M
10 123 34	L/XL
10 123 35	XXL
650K Adjustable shoulder	
10 123 36	S/M
10 123 37	L/XL
10 123 38	XXL

❱ The Kevlar harness conform to EN361(2002), ANSI, OSHA

ATEX ANTISTATIC

THE SOLUTION FOR WORK AT HEIGHT IN EXPLOSIVE ATMOSPHERES

● 2 POINT
Dorsal anchorage (webbing extension and loop) and sternal (with webbing loops)

▲ BENEFITS:
- Prevents the risks of ignition caused by electrostatic discharge
- Dorsal extension strap facilitates connection
- Detachable dorsal pad facilitates harness donning

▶ FEATURES: Increase security
- Anti-static material
- Sub-pelvic strap
- Protective back pad
- Adjustable shoulder straps
- Adjustable leg straps with automatic buckles

REF.	SIZE
10 150 74	S/M
10 150 75	L/XL

❱ Certified and complies with EN361 (2002) and ATEX 94/9/CE

❱ Additional ATEX solutions available on demand

DURAFLEX® STRETCH VEST HARNESS

ENGINEERED FOR OPTIMAL PERFORMANCE IN ALL CONDITIONS

● 2 POINT + workpositioning
Front and rear anchorage (front webbing loops)

▲ BENEFITS: High visibility
- Lightweight, durable polyester vest jacket
- Multiple adjustments for perfect fit
- Excellent chemical and abrasion resistance

▶ FEATURES: highly comfortable and practical vest
- Quick connect buckles
- Front zipper
- Multiple pockets
- Shoulder padding
- Lateral loops for tool bags
- Press studs between lining and jacket

REF.	SIZE
Black Vest Harness DuraFlex®	
10 068 82	M/L
10 075 50	XL

REF.	SIZE
Hi-Vis Vest Harness DuraFlex® - Yellow	
10 100 40	M/L
10 103 26	XL

REF.	SIZE
Hi-Vis Vest Harness DuraFlex® - Orange	
10 146 30	M/L
10 146 31	XL

Vest Harness DuraFlex® with side D-rings & work-positioning belt

10 134 54	M/L
10 134 55	XL

❱ Conforms to EN361 and EN471 Class 2 (for HI-VIS option).

*KEVLAR AND NOMEX ARE REGISTERED TRADEMARKS OF E. I. DU PONT DE NEMOURS AND COMPANY.

MILLER REVOLUTION™ R7 OFFS

DESIGNED FOR HIGHLY CORROSIVE OFFSHORE AND COASTAL ENVIRONMENTS INCLUDING WIND ENERGY AND PETROCHEMICAL INDUSTRIES

● 2 POINT + workpositioning

Front and rear anchorage (front webbing loops) and workpositioning side D-rings

▲ BENEFITS: High corrosion resistance and reinforced harness

- Protection with PVC coating on back and sides D rings
- Fall indicator at dorsal D pad
- Stand up D function for easy connection
- Stitched A security marking for anchorage at back and chest points
- Foldable side D-ring
- Additional elastic keepers on shoulder strap
- Longer stitching on the belt pad for greater strength
- Custom identification labels on back housing
- Back Pad with V shape
- Self contained label pack

▶ FEATURES: High resistant components

- 316 L Stainless steel PivotLink™
- DualTech™ polyamide/polyester webbing
- ErgoArmor™ padded back shield
- Positioning belt
- Automatic buckles on legs straps, belt & chest strap in anodized aluminium
- Shoulder aluminium CAM buckle adjustment for easy fit
- Back tool rings
- Available in 3 sizes according US size chart

REF.	SIZE
10 148 07/OFFS	S/M
10 148 08/OFFS	L/XL
10 148 09/OFFS	XXL

❱ Multi standards compliance: CE, ANSI/OSHA, CSA, AS/NZS

MILLER REVOLUTION™ R7 WIND

IDEAL FOR WORK AT HEIGHT ON ONSHORE WIND ENERGY APPLICATIONS

● 2 POINT + workpositioning

Front and rear anchorage (front webbing loops) and workpositioning side D-rings

▲ BENEFITS: High safety and comfort level

- Fall indicator at dorsal D pad
- Stand up D function for easy connection
- Stitched A security marking for anchorage at back and chest points
- Longer stitching on the belt pad for greater strength
- Back pad with 'V' shape
- Additional elastic keepers on shoulder strap
- Custom identification labels on back housing
- Self contained label pack

▶ FEATURES: Comfort and durability

- Galvanised steel Pivot Link™
- Polyester webbing
- Shoulder strap adjustment with mating buckle
- Chest strap mating buckle
- Automatic steel quick connect buckle on legs and waist strap
- Positioning belt
- ErgoArmor™ padded back shield
- Back tool rings
- Available in 3 sizes according US size chart

REF.	SIZE
10 148 07/WIND	S/M
10 148 08/WIND	L/XL
10 148 09/WIND	XXL

❱ Multi standards compliance: CE, ANSI/OSHA, CSA, AS/NZS

Fall arrest/Work positioning harnesses

A work positioning systems is designed to hold a worker in a secure, hands-free working position and is used in conjunction with a fall protection system. A fall can occur while working and this is why a work positioning system is a combination of the fall arrest harnesses that complies with EN361 together with a work positioning system to EN358.

ELASTOTRANS

SUITABLE FOR WORK ON PYLONS

● 2 POINT + workpositioning
Rear, 2 front anchorages and workpositioning side D-rings

▲ BENEFITS: Reduces fatigue
- Full freedom of movement for access
- Hands-free position
- Excellent support for suspension

▶ FEATURES: Comfort and freedom of movement
- Work positioning belt and leg straps
- Stretchable shoulder straps
- Ergonomically designed back-padding and padded leg straps
- Automatic buckles for easy fit
- Rear anchorage extension webbing

REF.	SIZE
10 030 29	S
10 030 28	M/L
10 030 30	XL

❱ Conforms to EN361 and EN358

RM

THE PERFECT COMPROMISE BETWEEN FREEDOM OF MOVEMENT AND EXCELLENT SUPPORT FOR SUSPENSION

● 3 POINT + workpositioning
Rear and sternal anchorage, ventral anchorage loops and workpositioning side anchorage

▲ BENEFITS: Stretch webbing
- Greater freedom of movement
- Comfort with reduced fatigue
- Excellent support for work in suspension

▶ FEATURES: Easy fitting
- Work positioning belt and sit harness function
- Elasticated webbing on shoulder straps
- Lightweight and easy-to-fit
- Quick connect buckles at legs and waist
- Padded belt and leg straps

REF.	SIZE
10 034 38	S
10 034 39	M/L

❱ Conforms to EN361, EN358 and EN813

TOWER

HEAVY-DUTY HARNESS, DESIGNED FOR EXCELLENT COMFORT AND SUPPORT

● 3 POINT + workpositioning
Rear and front anchorage (karabiner for fall arrest and ventral D-ring for access work) and workpositioning side D-rings

▲ BENEFITS
- Belt and sit harness function
- Belt prevents back injuries and promotes productivity

▶ FEATURES
- Ventral anchorage point for work in suspension
- High-quality, resistant webbing for increased durability
- Work-positioning belt
- Padded leg straps for enhanced comfort during suspension work
- Back and shoulder pads

REF.	SIZE
10 117 70	S
10 062 55	M

❱ Conforms to EN361, EN358 and EN813

Miller Revolution™ accessories
see p98-99

Waist level:
for bending or crouching

Hip level:
for ascending or descending

MILLER REVOLUTION™ PREMIUM R3

ERGONOMIC FIT WHEN BENDING OR CROUCHING

● 2 POINT + workpositioning

Dorsal D-ring front anchorage loops and workpositioning belt

▲ BENEFITS: Quick fitting harness

- Rotating PivotLink™ connections at **waist level**
- Easy fit when bending or crouching
- Full freedom of movement
- Custom identification labels
- Fixed work positioning belt

▶ FEATURES: Easy adjustment

- Dualtech™ webbing with shape retention memory
- ErgoArmor™ padded back shield
- Shoulder CAM buckles for easy fit
- Quick Connect Buckles at legs, belt & chest
- Web finials to store spare webbing
- Self-contained label pack
- Integrated accessories system

REF.	SIZE
DualTech webbing	
10 142 42	**S/M**
10 142 43	**L/XL**
10 142 44	**XXL****

❱ Conforms to EN361 and EN358

MILLER REVOLUTION™ PREMIUM R5

SMOOTHER MOVEMENT WHEN ASCENDING OR DESCENDING

● 2 POINT + workpositioning

Dorsal D-ring front anchorage loops and workpositioning belt

▲ BENEFITS: Stretch to users movements

- Rotating PivotLink™ connections at **hip level**
- Easy movement for ascent or descent
- Full freedom of movement
- Custom identification labels
- Rotating work positioning belt for hands free

▶ FEATURES: Reduce user fatigue

- Elasticated DuraFlex® webbing* stretches to users movements
- ErgoArmor™ padded back shield
- Shoulder CAM buckles for easy fit
- Quick Connect Buckles at legs, belt & chest
- Web finials to store spare webbing
- Self-contained label pack
- Integrated accessories system

REF.	SIZE	REF.	SIZE
DuraFlex® webbing		DualTech webbing	
10 142 51	**S/M**	**10 142 54**	**S/M**
10 142 52	**L/XL**	**10 142 55**	**L/XL**
10 142 53	**XXL****	**10 142 56**	**XXL***

❱ Conforms to EN361 and EN358

DURAFLEX® MA58

● 2 POINT + workpositioning

Rear and front anchorages with workpositioning belt

▲ BENEFITS: Elasticated webbing

- Greater comfort
- Increase durability

▶ FEATURES: Stretch webbing

- DuraFlex® elastomer webbing
- Webbing repels water, oil, grease and dirt
- Work positioning belt with 2 side D-rings
- Manual buckles at chest and legs
- 2 Sternal D-rings

REF.	SIZE
10 028 58	**S**
10 028 57	**M/L**
10 049 54	**XXL**

❱ Conforms to EN361 and EN358

*AVAILABLE IN DUALTECH WEBBING

**MADE ON DEMAND

Work positioning harnesses

ELASTOKUIK COMFORT

OFFERS FULL FREEDOM OF MOVEMENT FOR ACCESS AND EXCELLENT SUPPORT FOR WORK

● 2 POINT + workpositioning

Rear, front and work positioning side anchorages (front anchorage loops) with belt

▲ BENEFITS: Padding to support hands free position

- Excellent freedom of movement and extended reach
- Easy to fit
- Moving shoulder straps increases comfort and flexibility

▶ FEATURES: Comfort

- Rotating work-positioning belt
- Stretchable shoulder straps move with the worker
- Automatic buckles
- Comfortable back-padding in cordura

REF.	SIZE
10 030 23	S
10 030 22	M/L
10 030 24	XL

❱ Conforms to EN361 and EN358

ELASTOLIGHT

PERFECT SOLUTION FOR WORK POSITIONING AND ACCESS

● 2 POINT + workpositioning

Rear, front and work positioning side anchorages (front anchorage loops) with belt

▲ BENEFITS:

- Provide greater freedom of movement and comfort for enhanced productivity
- Comfortable back-padding for work-positioning
- Easy shoulder adjustments

▶ FEATURES:

- Stretchable shoulder straps
- Manual buckles at chest, belt and legs
- Padded belt

REF.	SIZE
10 060 77	S
10 060 76	M/L

❱ Conforms to EN361 and EN358

KUIK TST

ENHANCE OPERATOR'S COMFORT AND FREEDOM OF MOVEMENT AT WORK

● 2 POINT + workpositioning

Rear and front anchorages (front anchorage loops) and work positioning side D-rings with belt and semi-rigid seat strap

▲ BENEFITS: Optimum freedom of movement

- Work positioning belt allows 180° rotation
- Full freedom of movement with maximum reach
- Shoulder straps stretch with the user
- Seat strap ensures optimum comfort
- Reduces fatigue

▶ FEATURES: Increases user confidence

- 180° rotating work-positioning belt
- Rigid seat strap
- Belt and seat webbing straps move simultaneously
- Stretchable shoulder straps
- Automatic buckles for easy fit

REF.	SIZE
10 030 18	S
10 030 17	M/L

❱ Conforms to EN361 and EN358

DURAFLEX® MA60

THE CHOICE FOR GREATER MOBILITY AND EXTREME COMFORT

● 3 POINT + workpositioning

Rear and front anchorage with dorsal, sternal, ventral and workpositioning side anchorage with belt

▲ BENEFITS: Elasticated webbing

- Greater comfort
- Increase durability

▶ FEATURES: Stretch webbing

- DuraFlex® elastomer webbing
- Front anchorage webbing loops
- Webbing repels water, oil, grease and dirt
- Work positioning belt with 2 side D-rings
- Manual buckles

REF.	SIZE
10 051 37	S
10 051 36	M/L

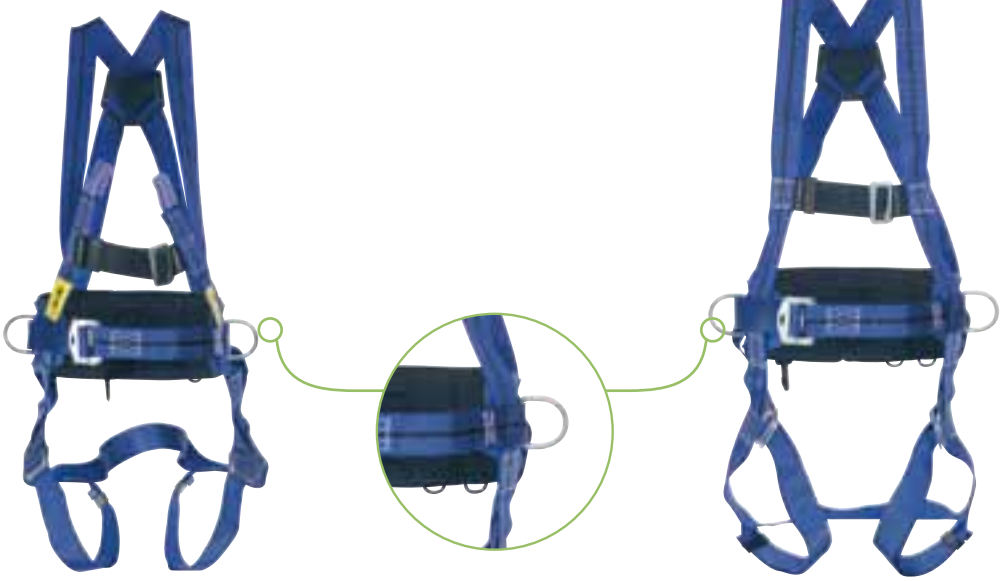
Available with QCB

10 124 63	S
10 124 62	M/L

❱ Conforms to EN361 and EN358

- Automatic buckles
- Padded legstraps

REF.	SIZE
10 310 00	XS
10 310 01	S/M
10 310 02	L/XL
10 310 03	XXL



TITAN™

● 2 POINT + workpositioning

Front and rear anchorages with work positioning belt

▲ BENEFITS: Lightweight

- Fully adjustable design so one size fits all
- Sliding back D-ring for a comfortable fit

▶ FEATURES: Ensures safety and compliance on the jobsite

- Durable polyester webbing
- Front webbing loops
- Sub-pelvic strap keeps the wearer upright
- 45mm chest strap with metal buckle
- Manual buckles

REF.
10 118 94

❱ Conforms to EN361 and EN358

TITAN™

COST EFFECTIVE FOR WORK POSITIONING

● 1 POINT + workpositioning

Rear anchorage with work positioning belt

▲ BENEFITS: Lightweight

- Fully adjustable design so one size fits all
- Sliding back D-ring for a comfortable fit

▶ FEATURES: Ensures safety and compliance on the jobsite

- Durable polyester webbing
- Sub-pelvic strap keeps the wearer upright
- 45mm chest strap with metal buckle
- Manual buckles

REF.
10 118 93

❱ Conforms to EN361 and EN358

Suspension harnesses

A sit harness is used to suspend the operator in a comfortable work position with maximum freedom of movement. When there is the risk of a fall the operator should wear a full body harness. The sit harness conforms to EN813 and optionally EN358. A full body harness conforms to EN361 and may also fulfil a work positioning function in accordance with EN358 and/or EN813.

Suspension system: The forces are split between the leg straps and the waist belt rather than being concentrated on the legs, thus providing enhanced ergonomics and increased user comfort whilst reducing the risk of suspension trauma.

ROPAX

INNOVATION AND TECHNOLOGY DEDICATED TO ROPE ACCESS AND RESCUE COMBINING SUSPENSION COMFORT WITH FREEDOM OF MOVEMENT

▲ BENEFITS: Perfect Fit

- Adjustment webbing straps between the leg straps and the belt
- V Shape prevents straps from digging and causing irritation
- Excellent lumber support and comfort
- Clip-on design safely organises webbing after proper adjustment
- Increased comfort in suspension
- Triangular suspension to minimise discomfort and suspension trauma

▶ FEATURES: New triangular suspension position

- Shoulder straps in V shape
- Adjustable webbing sling
- Extra-wide padded belt
- Foldable side D-rings
- Web finials
- 3 large gear loops
- Left & right tags to facilitate donning
- Padded leg straps

An additional webbing sling positions the ascender tight against the chest to facilitate ascension.

REF.	SIZE
WITH AUTOMATIC BUCKLES Black polyester webbing	
10 144 32	S/M
10 144 33	L/XL
WITH MANUAL BUCKLES Black polyester webbing	
10 144 34	S/M
10 144 35	L/XL
WITH AUTOMATIC BUCKLES DualTech webbing with shape retention memory	
10 151 10	S/M
10 151 11	L/XL

◗ Conforms to EN361, EN358 and EN813

OPTIONS

ERGOSOFT DORSAL PAD

DESIGNED TO PROTECT THE BACK AND FACILITATE HARNESS DONNING

- Protects against impacts and abrasion
- Mesh membrane allows superior air flow
- The transversal pad is fitted to the dorsal pad

REF.
10 152 05

TRANVERSAL PAD

USED IN CONJUNCTION WITH DORSAL PAD, IT ALLOWS THE USER TO ADOPT A SEMI-RECLINED WORK POSITION WITHOUT STRAINING THE ABDOMINALS

- Fully adjustable, the transversal pad clips onto the ErgoSoft dorsal pad and connects to the climbing line by means of a karabiner
- The sliding belt offers a greater freedom of movement and reach

REF.
10 152 06

IBX2R FULL BODY HARNESS

DESIGNED FOR SPECIALISTS WORKING HANDS-FREE AT HEIGHT OR IN RESCUE

● 3 POINT + workpositioning
Rear, sternal and ventral anchorage (loops) and workpositioning side anchorage with belt and padded leg straps

▲ BENEFITS: Excellent suspension comfort
- Belay connection link distributes the loads to larger muscle groups
- Reduces discomfort
- Minimises suspension trauma
- Easy to fit

▶ FEATURES: Fall arrest and work-positioning
- Ventral and sternal front webbing loops anchorages
- Anchorage point for a descender and fall arrest device
- Advanced buckling system

REF.	SIZE
WITH TOOLS SYSTEM	
10 073 86	**S**
10 070 22	**M/L**
10 073 87	**X/L**
10 102 69	**M/L (black)**
WITHOUT TOOLS SYSTEM	
10 070 21	**M/L**

❱ Conforms to EN361, EN358 and EN813

RAM

FLEXIBLE SIT HARNESS IS SUITABLE FOR MOUNTAIN RESCUE TECHNICIANS WHERE THE HARNESS IS WORN FOR SHORT DURATIONS ONLY
SIT HARNESS

▲ BENEFITS: Comfortable work position
- Easy to fit
- Belay connection link distributes the loads to larger muscles groups
- Minimises discomfort and suspension trauma
- Padding provides excellent support and comfort during suspension

▶ FEATURES: Sit harness
- Waist belay loop for rescue and rope access
- Padded belt and leg straps
- Belt with equipment loops
- Lightweight

REF.	SIZE:
10 073 90	**S**
10 070 25	**M/L**
10 073 91	**XL**
BLACK	
10 102 51	**S**
10 102 52	**M/L**
10 102 53	**XL**

❱ Conforms to EN813

Harnesses technical guide

NAME	STANDARD	REF.	SIZES	ANCHORAGE POINT				WEB	BUCKLES				PAGE
				Dorsal	Sternal	Ventral	Side		Shoulder	Belt	Leg	Chest	N°
TITAN™ range													
TITAN™	EN361	1011890	unique	•				Polyester			Manual	Manual	43
TITAN™	EN361	1011891	unique	•	•			Polyester			Manual	Manual	43
TITAN™ + positioning belt	EN361, EN358	1011893	unique	•			•	Polyester			Manual	Manual	54
TITAN™ + positioning belt	EN361, EN358	1011894	unique	•	•		•	Polyester			Manual	Manual	49
DURAFLEX® range													
DuraFlex® MA02	EN361	1002848	S	•				DuraFlex	-		Manual	Manual	43
		1002847	M/L	•				DuraFlex	-		Manual	Manual	43
DuraFlex® MA04	EN361	1002850	S	•	•			DuraFlex	Manual		Manual	Manual	42
		1002849	M/L	•	•			DuraFlex	Manual		Manual	Manual	42
DuraFlex® MA04 Automatic buckles	EN361	1007611	M/L	•	•			DuraFlex	Manual		Automatic	Manual	42
		1007612	XL	•	•			DuraFlex	Manual		Automatic	Manual	42
DuraFlex® MA08	EN361	1002854	S	•	•			DuraFlex	Manual		Manual	Manual	42
		1002853	M/L	•	•			DuraFlex	Manual		Manual	Manual	42
		1004959	XXL	•	•			DuraFlex	Manual		Manual	Manual	42
DuraFlex® MA60 + positioning belt	EN361, EN358	1005137	S	•	•	•	•	DuraFlex	Manual	Manual	Manual	Manual	49
		1005136	M/L	•	•	•	•	DuraFlex	Manual	Manual	Manual	Manual	49
		1031000	XS	•	•	•	•	DuraFlex	Manual	Manual	Automatic	Manual	49
		1031001	S/M	•	•	•	•	DuraFlex	Manual	Manual	Automatic	Manual	49
		1031002	L/XL	•	•	•	•	DuraFlex	Manual	Manual	Automatic	Manual	49
		1031003	XXL	•	•	•	•	DuraFlex	Manual	Manual	Automatic	Manual	49
DuraFlex® MA58 + positioning belt	EN361, EN358	1002858	S	•	•		•	DuraFlex	Manual		Manual	Manual	47
		1002857	M/L	•	•		•	DuraFlex	Manual		Manual	Manual	47
		1004954	XXL	•	•		•	DuraFlex	Manual		Manual	Manual	47
Hi Visibility vest DuraFlex® - Yellow	EN361, EN471 Class 2	1010040	M/L	•	•			DuraFlex	Manual		Automatic	Manual	44
		1010326	XL	•	•			DuraFlex	Manual		Automatic	Manual	44
Hi Visibility vest DuraFlex® - Orange	EN361, EN471 Class 2	1014630	M/L	•	•			DuraFlex	Manual		Automatic	Manual	44
		1014631	XL	•	•			DuraFlex	Manual		Automatic	Manual	44
Hi Visibility vest DuraFlex® + positioning belt	EN361, EN358, EN471 Class 2	1013454	M/L	•	•	•	•	DuraFlex	Manual		Manual	Manual	44
		1013455	XL	•	•	•	•	DuraFlex	Manual		Manual	Manual	44
Black Vest DuraFlex®	EN361	1006882	M/L	•	•			DuraFlex	Manual		Automatic	Manual	44
		1007550	XL	•	•			DuraFlex	Manual		Automatic	Manual	44
REVOLUTION™ Range													
Miller Revolution™ R2	EN361	1014236	S/M	•	•			DuraFlex	CAM		Automatic	Automatic	42
		1014237	L/XL	•	•			DuraFlex	CAM		Automatic	Automatic	42
		1014238	XXL	•	•			DuraFlex	CAM		Automatic	Automatic	42
Miller Revolution™ R2	EN361	1014239	S/M	•	•			Dualtech	CAM		Automatic	Automatic	42
		1014240	L/XL	•	•			Dualtech	CAM		Automatic	Automatic	42
		1014241	XXL	•	•			Dualtech	CAM		Automatic	Automatic	42
Miller Revolution™ R3 Dualtech	EN361, EN358	1014242	S/M	•	•		•	Dualtech	CAM	Automatic	Automatic	Automatic	47
		1014243	L/XL	•	•		•	Dualtech	CAM	Automatic	Automatic	Automatic	47
		1014244	XXL	•	•		•	Dualtech	CAM	Automatic	Automatic	Automatic	47
Miller Revolution™ R5 DuraFlex®	EN361, EN358	1014251	S/M	•	•		•	DuraFlex	CAM	Automatic	Automatic	Automatic	47
		1014252	L/XL	•	•		•	DuraFlex	CAM	Automatic	Automatic	Automatic	47
		1014253	XXL	•	•		•	DuraFlex	CAM	Automatic	Automatic	Automatic	47
Miller Revolution™ R5 Dualtech	EN361, EN358	1014254	S/M	•	•		•	Dualtech	CAM	Automatic	Automatic	Automatic	47
		1014255	L/XL	•	•		•	Dualtech	CAM	Automatic	Automatic	Automatic	47
		1014256	XXL	•	•		•	Dualtech	CAM	Automatic	Automatic	Automatic	47
WIND INDUSTRY													
Miller Revolution™ R7 OFFS	EN361, EN358, OSHA/ANSI/ CSA/AS/NZ	1014807/ WIND	S/M (US)	•	•		•	Polysester	Manual	Automatic	Automatic	Manual	45
		1014808/ WIND	L/XL (US)	•	•		•	Polysester	Manual	Automatic	Automatic	Manual	45
		1014809/ WIND	XXL (US)	•	•		•	Polysester	Manual	Automatic	Automatic	Manual	45

NAME	STANDARD	REF.	SIZES	ANCHORAGE POINT				WEB	BUCKLES				PAGE
				Dorsal	Sternal	Ventral	Side		Shoulder	Belt	Leg	Chest	N°
WIND INDUSTRY													
Miller Revolution™ R7 OFFS	EN361, EN358, OSHA/ANSI/ CSA/AS/NZ	1014807/ OFFS	S/M (US)	•	•		•	Dualtech	CAM	Automatic	Automatic	Automatic	45
		1014808/ OFFS	L/XL (US)	•	•		•	Dualtech	CAM	Automatic	Automatic	Automatic	45
		1014809/ OFFS	XXL (US)	•	•		•	Dualtech	CAM	Automatic	Automatic	Automatic	45
ROPAX range													
Ropax Dualtech	EN361, EN358, EN813	1015110	S/M	•	•	•	•	Dualtech	Manual	Manual	Automatic		50
		1015111	L/XL	•	•	•	•	Dualtech	Manual	Manual	Automatic		50
Ropax - Quick connect buckle	EN361, EN358, EN813	1014432	S/M	•	•	•	•	Black polyester	Manual	Manual	Automatic		50
		1014433	L/XL	•	•	•	•	Black polyester	Manual	Manual	Automatic		50
Ropax manual buckle	EN361, EN358, EN813	1014434	S/M	•	•	•	•	Black polyester	Manual	Manual	Manual		50
		1014435	L/XL	•	•	•	•	Black polyester	Manual	Manual	Manual		50
ATEX Certified													
Antistatic ATEX	EN361, ATEX 94/9/CE	1015074	S/M	•	•			Polyester Antistatic	Manual		Automatic	Automatic	44
		1015075	L/XL	•	•			Polyester Antistatic	Manual		Automatic	Automatic	44
KEVLAR - Flamed resistant													
Kevlar	EN361	1012333	S/M	•				Nomex	-		Manual	Manual	44
		1012334	L/XL	•				Nomex	-		Manual	Manual	44
		1012335	XXL	•				Nomex	-		Manual	Manual	44
Kevlar + adjustable shoulder strap	EN361	1012336	S/M	•				Nomex	Manual		Manual	Manual	44
		1012337	L/XL	•				Nomex	Manual		Manual	Manual	44
		1012338	XXL	•				Nomex	Manual		Manual	Manual	44
TECHNICAL HARNESS													
Elastokuik comfort	EN361, EN358	1003023	S	•	•		•	Polyamide	Manual	Automatic	Automatic	Automatic	48
		1003022	M/L	•	•		•	Polyamide	Manual	Automatic	Automatic	Automatic	48
		1003024	XL	•	•		•	Polyamide	Manual	Automatic	Automatic	Automatic	48
Kuik TST	EN361, EN358	1003018	S	•	•		•	Polyamide	Manual	Automatic	Automatic		48
		1003017	M/L	•	•		•	Polyamide	Manual	Automatic	Automatic		48
Elastotrans	EN361, EN358	1003028	M/L	•	•		•	Polyamide	Manual	Automatic	Automatic		46
		1003029	S	•	•		•	Polyamide	Manual	Automatic	Automatic		46
		1003030	XL	•	•		•	Polyamide	Manual	Automatic	Automatic		46
Elastolight	EN361, EN358	1006077	S	•	•		•	Polyamide	Manual	Manual	Manual		48
		1006076	M/L	•	•		•	Polyamide	Manual	Manual	Manual		48
RM	EN361, EN358	1003438	S	•	•	•	•	Polyamide	Manual	Automatic	Automatic		46
		1003439	M/L	•	•	•	•	Polyamide	Manual	Automatic	Automatic		46
Tower	EN361, EN358 EN813	1011770	S	•	•	•	•	Polyester	Manual	Manual	Manual		46
		1006255	M	•	•	•	•	Polyester	Manual	Manual	Manual		46
IBX2R (black)	EN361, EN358, EN813	1010269	M/L	•	•	•	•	Polyester	Manual	Manual	Manual	Manual	51
IBX2R	EN361, EN358, EN813	1007022	M/L	•	•	•	•	Polyester	Manual	Manual	Manual	Manual	51
		1007386	S	•	•	•	•	Polyester	Manual	Manual	Manual	Manual	51
		1007387	XL	•	•	•	•	Polyester	Manual	Manual	Manual	Manual	51
RAM sit Harness	EN813	1007025	M/L			•		Polyester		Manual	Manual		51
		1007390	S			•		Polyester		Manual	Manual		51
		1007391	XL			•		Polyester		Manual	Manual		51
RAM sit Harness (black)	EN813	1010252	M/L			•		Polyester		Manual	Manual		51

Work positioning belts

Miller offers a range of heavy-duty work-positioning belts designed to support the user in a hands-free work position at height. These belts can be used on their own when there is no risk of a fall, or alternatively in conjunction with a harness for fall arrest protection.

TITAN™ WORK POSITIONING BELT

2 SIDE D-RINGS

▲ BENEFITS:

- Lightweight
- 2 Stainless steel side D-rings for use with positioning lanyard

▶ FEATURES:

- Belt and webbing in polyester

REF.
10 082 32

❱ Conforms to EN358

520 WORK POSITIONING BELT

IDEAL FOR COMFORTABLE HANDS-FREE WORK POSITIONING AT HEIGHT
2 SIDE D-RINGS

▲ BENEFITS:

- Allows good freedom of movement

▶ FEATURES:

- 100mm wide padded belt
- Quick-adjustment buckle
- 2 large side D-rings for use with positioning lanyard

REF.	SIZE
10 063 19	**M**
10 063 20	**L**

❱ Conforms to EN358

522 WORK POSITIONING BELT

2 SIDE D-RINGS

▲ BENEFITS:

- Increased comfort and reduced fatigue when working for long hours
- Belt can be fitted with shoulder straps to relieve the load on the user's hips
- 2 side D-rings for use with positioning lanyard

▶ FEATURES:

- Heavy-duty synthetic back-support
- 200mm wide comfort back pad with quick adjustment buckle
- Fitted with loops for tool bags and accessories

REF.	SIZE
10 063 21	**M**
10 063 22	**L**

❱ Conforms to EN358

SELF RETRACTING LIFELINES

p58/59
SELF RETRACTING LIFELINE

p60/61
SELF RETRACTING LIFELINE WEBBING

p62/63
SELF RETRACTING LIFELINE WEBBING

MILLER SELF RETRACTING LIFELINES FEATURES

Swivel

Prevent damage to the lifeline from twisting during use and binding inside of the unit.

Webbing

Lightweight and high abrasion resistance.

Fall indicator

Highly visible fall indicator at the snap hook identifies when the unit needs to be removed from service.

Edge Tested

Innovative technology for working on edges featuring web with special heat and cut resistance.

Energy absorber

Reduces the fall arrest forces in case of a fall, located on the lifeline.

Scaff hook

Large opening karabiners allow connecting the self retracting lifeline to a large range of anchorage point.

Cable galvanised or stainless steel

Cable and karabiners are treated to prevent from corrosion and rusting and extend service life.

Self retracting lifelines cable

Self-retracting lifelines are mechanical devices with quick-activating braking system that limits a free fall to centimetres, with reduced fall arrest forces making this especially suitable for low-space fall clearance. The automatic retractable cable allows freedom of movement for workers who need to move relatively quickly up and down on a worksite. Miller® offers the most comprehensive range of fall arrest blocks including robust lightweight composite blocks, heavy-duty fall arrest and rescue models with metallic housing and choice of lineline materials: webbing, stainless steel, and galvanised steel with lengths available from 2m to 40m.

REF.	CABLE LENGTH METERS	CABLE	CONNECTORS				WEIGHT KG	DIMENSIONS MM
			TOP		BOTTOM	SNAP HOOK WITH FALL INDICATOR		
			KARABINER	SWIVEL	SWIVEL			
1011728	6.2	Galvanised	•	•	•	Steel	4	255 x 213 x 101
1011742	10	Galvanised	•	•	•	Steel	5	255 x 213 x 101
1011746	15	Galvanised	•	•	•	Steel	6.7	342 x 246 x 101
1011750	20	Galvanised	•	•	•	Steel	7.6	342 x 246 x 101
1011729	6.2	Stainless steel	•	•	•	Steel	4	255 x 213 x 101
1011743	10	Stainless steel	•	•	•	Steel	5	255 x 213 x 101
1011747	15	Stainless steel	•	•	•	Steel	6.7	342 x 246 x 101
1011751	20	Stainless steel	•	•	•	Steel	7.6	342 x 246 x 101
1028680	6.2	Stainless steel		•	•	Stainless steel	4	255 x 213 x 101
1028681	10	Stainless steel		•	•	Stainless steel	5	255 x 213 x 101
1028682	15	Stainless steel		•	•	Stainless steel	6.7	342 x 246 x 101
1028683	20	Stainless steel		•	•	Stainless steel	7.6	342 x 246 x 101
ATEX								
1017921	10	Stainless steel	•		•	•	5	255 x 213 x 101

Additional models are available upon request

FALCON™ BLOCK

THE SAFEST, MOST ROBUST AND COMPREHENSIVE RANGE OF COMPOSITE RETRACTABLE LIFELINES ON THE MARKET

6.2M TO 20M – CABLE SELF-RETRACTING LIFELINE

▲ BENEFITS: Increase durability

- Smooth round edges increase durability
- Stops the fall within a few centimetres for a quick and safe rescue
- Lightweight, robust composite unit
- Easy-to-install
- Tested and approved for horizontal applications*
- No annual factory re-certification required** – Lowers cost of ownership and increases productivity
- Lifetime housing guarantee***

▶ FEATURES:

- Quick-activating braking mechanism
- Highly visible fall indicator
- Screwgate karabiner
- Dual stainless steel swivels (unit top and snaphook)
- Corrosion-resistant stainless steel and aluminium internal components
- High impact resistant nylon housing
- Ergonomically designed moulded handle (15 & 20m models)
- Unique side payout design reduces wear on the entry guide bushing and cable

◗ Conforms to EN360

Additional models are available upon request. Please contact our technical service.

* WHEN USED WITH THE APPROPRIATE MANUFACTURER RECOMMENDED EQUIPMENT

** THE CE STANDARD REQUIRES INSPECTION BY A TRAINED COMPETENT PERSON. FOLLOWING THE MILLER REPAIR GUIDE

*** WHEN USED UNDER TYPICAL WORKING CONDITIONS

BLACK RHINO™ BLOCK

DESIGNED TO ENDURE THE DAILY RIGOURS OF HARSH ENVIRONMENTS

2.7M – STAINLESS STEEL CABLE LIFELINE

▲ BENEFITS: The smallest and lightest 2.7-metre cable lifeline on the market

- No annual factory re-certification required* – lowers cost of ownership and increases productivity
- Corrosion-resistant components
- Meets all applicable global industry standards

▶ FEATURES:

- Quick-activating braking system in high strength stainless steel
- Integral fall indicator
- Integral internal shock absorber
- Aluminium housing and hub

REF.

Black Rhino with swivel screwgate karabiner and swivel snap hook (22mm)

10 124 10

Black Rhino with swivel scaffold hook (65mm) and swivel snap hook (22mm)

10 123 92

❱ Conforms to EN360

*THE CE STANDARD REQUIRES INSPECTION BY A TRAINED END-USER COMPETENT PERSON, FOLLOWING THE MILLER REPAIR GUIDE.

MIGHTYLITE™ BLOCK

HEAVY-DUTY BLOCKS FOR HARSH CONDITIONS AND TOUGH ENVIRONMENT

6.2M TO 40M – CABLE SELF RETRACTING LIFELINE

▲ BENEFITS: For harsh conditions and tough environment

- Heavy-duty performance from a compact and easy-to-use block

▶ FEATURES: Lightweight composite blocks with heavy-duty fall arrest

- Available with webbing, galvanised or stainless steel cable
- Lifeline available in 6.2 to 40m
- Pressed steel housing
- Stainless steel springs
- Integral fall indicator

REF. LENGTH

Snap hook and karabiner in zinc-plated steel

10 028 27 **6.2m**

10 028 28 **15.5m**

❱ Conforms to EN360

REF.	MIGHTYLITE STEEL HOUSING			CABLE			HANDLE
				STAINLESS STEEL	GALVANISED	WEBBING	
	MODEL	LENGTH (M)	WEIGHT (KG)	Ø 4.8MM	Ø 4.8MM	25MM	
1004592	MI55	15	9.5	•			•
1004593	MI56	20	14.9	•			•
1004594	MI57	30	19	•			•
1004595	MI58	40	23.6	•			•
1002820	MI50	6.2	4		•		
1004571	MI54	10	5.6		•		
1004573	MI55	15	9.5		•		•
1004572	MI56	20	14.9		•		•
1004574	MI57	30	19		•		•
1004575	MI58	40	23.6		•		•
1002827	MI70	6.2	3.5			•	
1002828	MI71	15.5	9.4			•	

MIGHTEVAC® RESCUE BLOCK

COMBINES PERFORMANCE AND RELIABILITY FOR EMERGENCY EVACUATION

15M TO 40M – CABLE SELF-RETRACTING LIFELINE WITH EMERGENCY RETRIEVAL WINCH

▲ BENEFITS: Heavy duty performance

- Easy-to-use
- Used in conjunction with the Miller Tripod and dedicated brackets to form the core of a stable and secure confined entry/rescue system

▶ FEATURES:

- 4.8mm galvanised or stainless steel cable
- Quick-activating retrieval winch mechanism
- Pressed steel housing and compact design
- Rescue winch (up/down), gear ratio 5:1
- Corrosion-resistant stainless steel/ aluminum components
- Convenient, heavy-duty carrying handle
- Integral fall indicator
- For emergency evacuation only
- Supplied without brackets

REF. LENGTH

Lifeline material: Galvanised steel

10 051 49 **15m**

10 051 60 **30m**

10 051 61 **40m**

Lifeline material: Stainless steel

10 143 90 **15m**

10 143 70 **30m**

Brackets for MightEvac®

10 053 30 **15m**

10 053 31 **30 & 40m**

❱ Conforms to EN360

Self retracting lifeline webbing

EDGE-TESTED PERSONAL FALL LIMITER!
Whilst the risk of failure on an edge is often present during work at height, this hazard is relatively unknown. Miller developed a solution to this problem with the Scorpion™ Edge-Tested Personal Fall Limiter to ensure safety in the event of a fall on edges!

SCORPION™ EDGE BLOCK

INEXPENSIVE ALTERNATIVE FOR SINGLE ENERGY ABSORBING LANYARD

2.7M – EDGE TESTED RETRACTABLE WEBBING LIFELINE

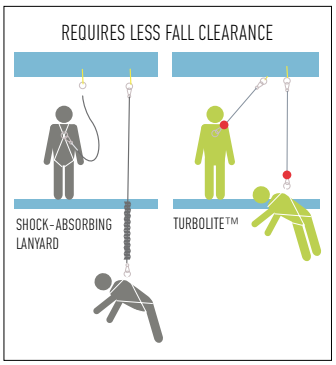
▲ BENEFITS: Extremely robust and lightweight

- Reduces the impact forces due to a fall to under 6kN
- Reduces the risk of tripping or snagging
- Eliminates the need for an extended fall distance clearance
- Housing and internal components are corrosion resistant
- No annual factory re-certification required* – lowers cost of ownership and increases productivity

▶ FEATURES: Resistant to fall over an edge

- Extremely robust and lightweight
- Quick-activating braking mechanism limits a free fall to centimetres
- Visual fall indicator – indicates the unit must be removed from service
- Corrosion-resistant internal parts
- High impact polymer cover
- Stainless steel/aluminium components
- Swivel at the top of unit to prevent lifeline from twisting during use
- Weight: 1.750kg

SCORPION™	DESCRIPTION	ANCHORAGE CONNECTOR		HARNESS CONNECTOR
1016840	SCORPION™ Edge tested CS20 + snap hook + webbing resistant to breakage against edges	Steel screwgate karabiner		Steel snap hook
1016841	SCORPION™ Edge tested CS20 + karabiner opening 65mm + webbing resistant to breakage against edges	Scaffold hook, (opening 63 mm)		Aluminium screwgate karabiner
1016842	SCORPION™ Edge tested snap hook + karabiner opening 55mm + webbing resistant to breakage against edges	Steel scaffold hook, (opening 55 mm)		Steel snap hook



TURBOLITE™ BLOCK

FIRST AFFORDABLE ALTERNATIVE TO SHOCK-ABSORBING LANYARDS USED IN FACTOR 2

2M – SELF RETRACTING WEBBING LIFELINE

▲ BENEFITS: Usable in fall factor 2

- Compact & lightweight
- Low space clearance of 1.80m compare to 2.50m for a shock-absorbing lanyard (fall factor 0)
- Adapted to all situations when working with low space clearance
- Can be used in Fall Factor 2 (below the back D ring and not lower than foot level)
- Can be used on both ways around
- Rated for up to a 100kg user in fall factor 2 (140kg in fall factor 0 and 1)
- Abrasion resistance and long service life
- No annual factory recertification required

▶ FEATURES: Compact and lightweight 0.86kg

- Built-in web fall indicator identifies when to remove from service
- Quick activating patent pending braking system
- Provides 2m working capacity lifeline
- Engineered webbing (vectran/polyester webbing) for greater abrasion resistance and long service life
- Built-in swivel prevents lifeline from twisting
- High-strength, impact-resistant nylon housing for maximum durability
- Swivel at the top of unit to prevent lifeline from twisting during use
- Meets all applicable OSHA, ANSI A10.32 and Z359-2007, and CSA standards

REF.	ANCHORAGE CONNECTION (WEBBING SIDE)	HARNESS CONNECTION (BLOCK SIDE)
10 180 15	**twistlock**	**twistlock**
10 180 13	**scaff hook (65mm)**	**twistlock**
10 180 14	**twistlock**	**scaff hook (65mm)**
10 179 00	**snap hook (21mm)**	**twistlock**

❱ Conforms to EN360

TWIN TURBO™ SYSTEM

AN EFFECTIVE SOLUTION WHEN WORKING WITH LOW FALL CLEARANCE

▲ BENEFITS: Replacement for double-legged shock-absorbing lanyards

- Easily adapts two (2) lightweight Miller TurboLite™
- For continuous 100% tie-off
- Easy-to-use and assemble/disassemble
- Easily remove TurboLite from D-Ring connector for inspection/cleaning/replacement

▶ FEATURES: New patent-pending Miller Twin Turbo™ D-Ring connector

- Innovative design that easily connects to the back D-ring of any full body harness
- Increases worker productivity and versatility with freedom of movement
- Permits TurboLite to swivel in multiple directions for greater mobility
- Swivel action prevents webbing from twisting and binding inside the unit
- Webbing payout smoothly extends and retracts without interruption
- Weight bracket: 0.395kg
- Weight: Twin Turbo: 2.1kg

REF.	
10 297 15	**Twin Turbo bracket**
10 297 16	**Twin Turbo bracket & two TurboLite 1018013 with 2 aluminium scaff hook**

❱ Conforms to EN362: 2004 (OSHA 1926.502, 1910.66 ; ANSI Z359-2007 et A10.32 et CSA Z259.12-01)

*THE CE STANDARD REQUIRES INSPECTION BY A TRAINED COMPETENT PERSON, FOLLOWING THE MILLER REPAIR GUIDE.

Self retracting lifeline webbing

MINILITE™

FALL ARREST BLOCK WITH A QUICK-ACTIVATING BRAKING SYSTEM THAT LIMITS FREE FALLS

3M – SELF RETRACTING WEBBING LIFELINE

▲ BENEFITS:

- Increased freedom of movement
- Long product durability
- Lightweight
- No annual factory re-certification required* – Lowers cost of ownership and increases productivity

▶ FEATURES:

- High-impact composite housing and corrosion resistant interior, frame and components
- High-strength stainless steel quick activating braking system that limits free fall to centimetres
- Lightweight, compact design that fits in the palm of your hand, only 1.1kg
- Visual fall indicator – indicates when the unit must be removed from service

REF.	LENGTH	ANCHORAGE CONNECTION	HARNESS CONNECTION
10 061 00	**MI10 – 3.3m**	**swivel snap hook (18mm)**	**CS20**
10 061 01	**MI11 – 3.3m**	**swivel scaff hook (50mm)**	**snap hook (18mm)**
10 061 02	**MI12 – 3.3m**	**snap hook (18mm)**	**CS20**

❱ Conforms to EN360

AVIABLOC

1.5M AND 2.5M – RETRACTABLE POLYAMIDE WEBBING LIFELINE

▲ BENEFITS:

- Working capacity of 2.5m maximum
- Reduces the impact force of a fall
- Integral shock-absorber
- Swivel at the harness connexion side to avoid twisting of the webbing

REF. HOUSING	LENGTH	ANCHORAGE CONNECTION	HARNESS CONNECTION
10 030 59	**1.5m**	**sgk***	**sgk***
10 028 71	**2.5m**	**sgk***	**sgk***
10 108 93	**2.5m**	**snap hook**	**sgk***
10 083 32	**2.5m**	**-**	**-**

REF. NO HOUSING	LENGTH	ANCHORAGE CONNECTION	HARNESS CONNECTION
10 083 31	**2.5m**	**sgk***	**sgk***
10 083 30	**2.5m**	**-**	**sgk***

❱ Conforms to EN360

*sgk = screw gate karabiner

FALCON™ BLOCK

6M-SELF RETRACTING WEBBING LIFELINE

▲ BENEFITS: Increased Service Life

- Nylon casing comes with a lifetime guarantee
- Best length/weight ratio on the market (6m unit weighs only 1.5kg)

▶ FEATURES:

- Lightest, most compact 6m web self-retracting lifeline
- Quick activating braking mechanism
- Webbing provides extremely high abrasion resistance (tested > 20,000 cycles)
- Offers Xtreme durability with a strong, composite housing
- Swivel at the top of unit to prevent lifeline from twisting during use

REF.	ANCHORAGE CONNECTION	HARNESS CONNECTION
10 167 93	**swivel**	
10 167 94	**scaff hook (65mm)**	**screwgate**
10 167 95	**screwgate**	**screwgate**
10 167 96	**screwgate**	**snap hook (22mm)**

❱ Conforms to EN360

SCORPION™ BLOCK

AFFORDABLE ALTERNATIVE TO SHOCK-ABSORBING LANYARDS REQUIRING REDUCED FALL CLEARANCE

2.7M – SELF RETRACTING WEBBING LIFELINE

▲ BENEFITS: Reduced fall arrest forces

- Unique snap-hook design for easy attachment to harness D-ring
- Eliminates the need for an extended fall distance clearance
- The retractable lifeline reduces the risk of tripping or snagging
- No annual factory re-certification required* – lowers cost of ownership and increases productivity

▶ FEATURES: Greater mobility and prevents tripping hazards

- Quick-activating, high-strength stainless steel braking system
- Compact and lightweight (1.6 kg)
- Visual fall indicator – indicates when the unit must be removed from service
- Corrosion-resistant internal parts
- High impact polymer cover
- Stainless steel/aluminium body
- Lifeline material: polyamide webbing
- Swivel at the top of unit to prevent lifeline from twisting during use

REF.	LENGTH	ANCHORAGE CONNECTION	HARNESS CONNECTION
10 085 88	**2.8m**	**scaff hook (65mm)**	**snap hook**
10 085 87	**2.7m**	**screwgate karabiner**	**snap hook**
10 085 94	**2.8m**	**alloy scaff hook (65mm)**	**karabiner**
10 085 93	**2.7m**	**alloy scaff hook (65mm)**	**snap hook for D-ring**

❱ Conforms to EN360

*THE CE STANDARD REQUIRES INSPECTION BY A TRAINED COMPETENT PERSON, FOLLOWING THE MILLER REPAIR GUIDE.

Self retracting lifeline technical guide

LENGTH	REF.	STANDARD	CABLE		WEBBING	FALL FACTOR	ANCHORAGE CONNECTION		HARNESS CONNECTION		FALL INDICATOR		PAGE No
			Galvanised	Stainless Steel			Karabiner	Swivel	Swivel	Harness connection			
Falcon™													
6.2m	1011728	EN360	•			0 - 1 - 2	Screwgate	•	•	Steel snap hook	At snap hook	4kg	58
10m	1011742	EN360	•			0 - 1 - 2	Screwgate	•	•	Steel snap hook	At snap hook	5kg	58
15m	1011746	EN360	•			0 - 1 - 2	Screwgate	•	•	Steel snap hook	At snap hook	6.7kg	58
20m	1011750	EN360	•			0 - 1 - 2	Screwgate	•	•	Steel snap hook	At snap hook	7.6kg	58
6.2m	1011729	EN360		•		0 - 1 - 2	Screwgate	•	•	Steel snap hook	At snap hook	4kg	58
10m	1011743	EN360		•		0 - 1 - 2	Screwgate	•	•	Steel snap hook	At snap hook	5kg	58
15m	1011747	EN360		•		0 - 1 - 2	Screwgate	•	•	Steel snap hook	At snap hook	6.7kg	58
20m	1011751	EN360		•		0 - 1 - 2	Screwgate	•	•	Steel snap hook	At snap hook	7.6kg	58
6.2m	1028680	EN360		•		0 - 1 - 2		•	•	Stainless steel snap hook	At snap hook	4kg	58
10m	1028681	EN360		•		0 - 1 - 2		•	•	Stainless steel snap hook	At snap hook	5kg	58
15m	1028682	EN360		•		0 - 1 - 2		•	•	Stainless steel snap hook	At snap hook	6.7kg	58
20m	1028683	EN360		•		0 - 1 - 2		•	•	Stainless steel snap hook	At snap hook	7.6kg	58
10m	1017921	ATEX					Screwgate	•	•	Steel snap hook	At snap hook	5kg	58
Note: Factor 2 only with steel sling													
Black Rhino													
2.7m	1012410	EN360		•		0 - 1	Screwgate	•	•	Steel snap hook	At snap hook	2kg	59
2.7m	1012392	EN360		•		0 - 1	Scaffold hook	•	•	Steel snap hook	At snap hook	2.3kg	59
Mightylite													
6.2m	1002820	EN360	•			0 - 1			•	Steel snap hook	At snap hook	4kg	59
10m	1004571	EN360	•			0 - 1			•	Steel snap hook	At snap hook	5.6kg	59
15m	1004573	EN360	•			0 - 1			•	Steel snap hook	At snap hook	9.5kg	59
20m	1004572	EN360	•			0 - 1			•	Steel snap hook	At snap hook	14.9kg	59
30m	1004574	EN360	•			0 - 1			•	Steel snap hook	At snap hook	19kg	59
40m	1004575	EN360	•			0 - 1			•	Steel snap hook	At snap hook	23.6kg	59
15m	1004592	EN360		•		0 - 1			•	Steel snap hook	At snap hook	9.5kg	59
20m	1004593	EN360		•		0 - 1			•	Steel snap hook	At snap hook	14.9kg	59
30m	1004594	EN360		•		0 - 1			•	Steel snap hook	At snap hook	19kg	59
40m	1004595	EN360		•		0 - 1			•	Steel snap hook	At snap hook	23.6kg	59
6.2m	1002827	EN360			•	0 - 1			•	Steel snap hook	At snap hook	3.5kg	59
15.5m	1002828	EN360			•	0 - 1			•	Steel snap hook	At snap hook	9.4kg	59
Mighty Evac													
15m	1005149	EN360	•			0 - 1			•	Steel snap hook	At snap hook	13.5kg	59
30m	1005160	EN360	•			0 - 1			•	Steel snap hook	At snap hook	24.7kg	59
40m	1005161	EN360	•			0 - 1			•	Steel snap hook	At snap hook	27.6kg	59
15m	1014390	EN360		•		0 - 1			•	Steel snap hook	At snap hook	11.2kg	59
30m	1014370	EN360		•		0 - 1			•	Steel snap hook	At snap hook	18.5kg	59
Turbolite													
2m	1018015	EN360. ANSI. OSHA			•	0 - 1 - 2	Screwgate	•		Screwgate	Web shock absorber	0.86kg	61
2m	1018013	EN360. ANSI. OSHA			•	0 - 1 - 2	Screwgate	•		Scaffold hook	Web shock absorber	0.86kg	61
2m	1018014	EN360. ANSI. OSHA			•	0 - 1 - 2	Scaffold hook	•		Screwgate	Web shock absorber	0.86kg	61
2m	1017900	EN360. ANSI. OSHA			•	0 - 1 - 2	Screwgate	•		Steel snap hook	Web shock absorber	0.86kg	61

LENGTH	REF.	STANDARD	CABLE		WEBBING	FALL FACTOR	ANCHORAGE CONNECTION		HARNESS CONNECTION		FALL INDICATOR	WEIGHT	PAGE No
			Galvanised	Stainless Steel			Karabiner	Swivel	Swivel	Harness connection			
Twin Turbo													
2m	1029716	EN360. ANSI. OSHA			•		Twin turbo D-Ring			2 x Scaffold hook	Web shock absorber	2.1kg	61
Falcon™													
6m	1016793	EN360			•	0 - 1		•				1.5kg	63
6m	1016794	EN360			•	0 - 1	Scaffold hook	•		Screwgate		1.9kg	63
6m	1016795	EN360			•	0 - 1	Screwgate	•		Screwgate		1.6kg	63
6m	1016796	EN360			•	0 - 1	Screwgate	•		Snap hook		1.6kg	63
Scorpion™													
2.8m	1008588	EN360			•	0 - 1	Scaffold hook	•		Snap hook	Web shock absorber	2kg	63
2.7m	1008587	EN360			•	0 - 1	Screwgate	•		Snap hook	Web shock absorber	2kg	63
2.8m	1008594	EN360			•	0 - 1	Screwgate	•		Scaffold hook	Web shock absorber	2kg	63
2.7m	1008593	EN360			•	0 - 1	Snap hook	•		Scaffold hook	Web shock absorber	2kg	63
Scorpion™ Edge tested													
2.7m	1016840	EN360:2002; CNB/P/11.060			•	0 -1 -2	Screwgate	•		Snap hook	Web shock absorber	1.5kg	60
2.7m	1016841	EN360:2002; CNB/P/11.060			•	0 -1 -2	Scaffold hook	•		Screwgate	Web shock absorber	1.75kg	60
2.7m	1016842	EN360:2002; CNB/P/11.060			•	0 -1 -2	Scaffold hook	•		Snap hook	Web shock absorber	1.75kg	60
Minilite													
3m	1006100	EN360			•	0 - 1	Snap hook		•	Screwgate	Web shock absorber	1.1kg	62
3m	1006101	EN360			•	0 - 1	Scaffold hook		•	Snap hook	Web shock absorber	1.1kg	62
3m	1006102	EN360			•	0 - 1	Snap hook		•	Screwgate	Web shock absorber	1.1kg	62
Aviabloc													
1.5m	10 030 59	EN360			•	0 - 1					Web shock absorber	1.195kg	62
2.5m	10 028 71	EN360			•	0 - 1					Web shock absorber	1.370kg	62
2.5m	10 108 93	EN360			•	0 - 1					Web shock absorber	1.520kg	62
2.5m	10 083 32	EN360			•	0 - 1					Web shock absorber	0.985kg	62
2.5m	10 083 31	EN360			•	0 - 1					Web shock absorber	0.920kg	62
2.5m	10 083 30	EN360			•	0 - 1					Web shock absorber	0.885kg	62

LANYARDS

p69

ROPE SHOCK-ABSORBING LANYARDS

p70/71

WEBBING SHOCK-ABSORBING LANYARDS

FORKED WEBBING LANYARDS

p72/73

RESTRAINT LANYARDS

WORK POSITIONING LANYARDS

p74/75

MANYARD®

BARRACUDA™

EDGE-TESTED MANYARD®

EDGE-TESTED LANYARD

MILLER LANYARDS FEATURES

Energy shock absorber

Featuring a built-in absorber which limits the fall arrest force in a fall situation to 6 kN.

Edge tested

Innovative technology for working on edges, features webbing with special heat and cut resistance.

Adjustable

Fall arrest, restraint or work positioning lanyard can be easily adjusted to the length needed to work safely and comfortably.

Connectors

Connectors are available to attach to different anchorage points.

Elasticated Manyard®

Light and stretchable, it moves with the worker and reduces tripping or snagging hazards.

Lanyards

A lanyard is used to connect the workers harness to the anchorage point as an intermediate attachment when working at height. A connecting lanyard may be one of the 2 types: **Fall Restraint** or **Fall Arrest**

SHOCK ABSORBING LANYARD OR MANYARD®

To prevent the risk of a fall, it is made of rope or webbing and comes with a variety of connectors. With a maximum of 2m length, it includes a shock absorber to dissipate the forces on the body in case of a fall.

See for Rope shock-absorbing lanyards page 69, Webbing shock-absorbing lanyards page 70 and Manyard shock-absorbing lanyards page 74

FORKED LANYARD OR MANYARD®

Used to ensure a permanent connection to an anchorage point at all times when climbing on and around the work place. Maintaining an anchorage connection as high as possible minimises the fall clearance, reducing the effect of a fall by stopping impact with structure.

See for Forked webbing lanyards page 71 and forked Manyard shock-absorbing lanyards page 74

EDGE TESTED LANYARD OR MANYARD®

To prevent the risk of failure on an edge during work at height, requires a two-fold solution: fall arrest equipment has been developed with resistance to failure on edges whilst also absorbing the fall arrest forces.

See page 74

RESTRAINT LANYARD

A restraint lanyard is used to restrict the worker movement to prevent him reaching a location where a fall hazard exist.

See page 72

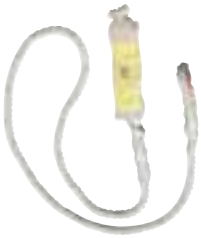
WORK POSITIONING LANYARD

Used to allow hands free work, to complement a fall arrest system. The length is easily adjustable with one hand to fit around the structure and then onto the side D-rings of the harness' belt.

See page 73

Rope shock-absorbing lanyards

The choice is primarily one of preference since they both offer the same high level of performance. Available with a variety of attachments and designed to better meet fall protection needs.



TITAN™ B

ROPE SHOCK-ABSORBING LANYARD

NO CONNECTORS

REF. **10 082 75** LENGTH **1.8m**

TITAN™ B1

ROPE SHOCK-ABSORBING LANYARD WITH SNAP HOOK AND SCREWGATE KARABINER

REF. **10 082 76** LENGTH **2.0m**

TITAN™ C3

ROPE SHOCK-ABSORBING LANYARD WITH SCREWGATE

KARABINER AND SCAFFOLD HOOK (65MM OPENING)

REF. **10 082 81** LENGTH **2.0m**

ME52

ROPE LANYARD WITH SHOCK ABSORBER

▲ BENEFIT: Cost-effective choice for fall protection

- Adapted to harsh work conditions and difficult work environments
- Small size for reduce weight
- Easy to handle and carry

▶ FEATURES:

- Made of highly resistant and durable 12mm polyamide rope

REF. **10 029 07** LENGTH **2.0m**

MODEL	REFERENCE	LENGTH (M)	12MM ROPE	USER CONNECTOR	ANCHORAGE CONNECTOR
ME51	1002906	2	•	CS20	65mm aluminium Scaffold hook
ME52	1002907	2	•	CS20	CS20
AMORSTOP	1003216	1.5	•	CS20	CS20
ME53	1004578	2	•	CS20	18mm Snap hook
ME53	1005290	1.5	•	CS20	18mm Snap hook
ME54	1004591	2	•	CS20	55mm Scaffold hook
ME54	1005278	1.5	•	CS20	55mm Scaffold hook
AMORSTOP	1003220	1.3	•	None	None

Webbing shock-absorbing lanyards

ME02

WEBBING LANYARD WITH SHOCK ABSORBER, 1.5M TO 2M

▲BENEFIT: Cost-effective choice for fall protection

- Adapted to harsh work conditions and difficult work environments
- Small size for reduces weight
- Easy to handle and carry

▶FEATURES:

- Made of highly resistant and durable 23mm polyester webbing

TITAN™ A2

WEBBING SHOCK ABSORBING LANYARD WITH SCREWGATE KARABINER

REF.	LENGTH
10 143 30	1.5m

TITAN™ A3

WEBBING SHOCK ABSORBING LANYARD WITH SCREWGATE KARABINER AND SCAFFOLD HOOK (65MM)

REF.	LENGTH
10 134 30	2m
10 151 40	1.75m

WEBBING SHOCK ABSORBING LANYARD

MODEL	REFERENCE	LENGTH (M)	12MM ROPE	USER CONNECTOR	ANCHORAGE CONNECTOR
ME00	1002901	1.8	•	None	None
ME02	1002903	2	•	CS20	CS20
ME03	1002904	2	•	ML06	ML06
ME06	1005279	1.5	•	ML00	65mm Scaffold hook
ME06	1004579	2	•	ML00	65mm Scaffold hook

* 100% TIE-OFF

Forked webbing lanyards

TWIN SHOCK ABSORBING LANYARD WITH ANCHORAGE CONNECTORS

1.5M TO 2M WEBBING FORKED LANYARD 100% TIE-OFF

▲ BENEFITS: Permanently connected when moving
- Easily connected and removed
- Double-legged lanyard to move around whilst being connected at all times
- Compact, light-weight shock-absorber

▶ FEATURES: Lightweight & versatile fall arrest lanyard designed for maximum protection
- Robust polyester webbing 23mm
- Integrated polyamide shock-absorber

REF.	LENGTH	CONNECTORS
10 029 02	2m	3 Screwgate karabiners (18mm opening)
10 045 90	2m	Screwgate karabiner and 2 scaff hooks (65mm opening)
10 032 32	1m	Screwgate karabiner + 2 G060 (60mm)
10 051 31	1.5m	Screwgate karabiner + 2 G060 (60mm)
10 032 35	2m	Screwgate karabiner + 2 G060 (60mm)
10 032 33	1m	¼ Twistlock karabiner + 2 scaff hooks (65mm)

TITAN™

CONNECTORS: 2 SCAFFOLD HOOKS (65MM) AND SCREWGATE KARABINER

REF.	LENGTH
10 134 31	2m

ATEX LANYARD

▲ BENEFITS:
- Prevents risk of electrostatic discharge igniting an explosive atmosphere

▶ FEATURES:
- Energy absorber
- 2 G060 karabiner and 1 twist lock karabiner
- Antistatic polyester webbing 25mm
- Shock absorber : Polyester/Polyamide

REF.
10 158 59

◗ Standard: EN 355. Directive ATEX 94/9/CE, EN 13463-1 (2001), EN 13463-5 (2003)

TIE-BACK FORKED SHOCK-ABSORBING LANYARD

TECHNICAL FALL ARREST LANYARD

▲ BENEFITS:
- Forked lanyard for 100% tie-off: Ideal for ascension of a tower or ladder
- Shock-absorber limits fall arrest forces < 6kN

▶ FEATURES:
- 1.5m webbing lanyard with shock-absorber, and 4 loops
- Multi-point attachment system so that the lanyard can be used in tie-back
- Compact and lightweight

REF.	CONNECTORS
10 070 13	3 captive eye karabiners (18mm opening)
10 070 15	without connectors
10 102 06	with 2 scaff hooks 65mm

Restraint lanyards

A restraint lanyard is used to restrict the worker's movement to prevent him reaching a location where a fall hazard exists.

ME00 – MD06

▲ BENEFITS: Lightweight
- With or without connectors

▶ FEATURES : Polyamide rope – 12mm
- Available length from 0.35m to 2m
- Galvanised connectors
- Spliced loop with protective plastic thimble

REF.
10 028 81
10 028 87

TITAN™

▲ BENEFITS: Lightweight
- With or without connectors

▶ FEATURES: Polyamide rope – 12mm
- Available length from 1m to 2m
- Galvanised connectors
- Spliced loop with protective plastic thimble

REF. TITAN™	LENGTH
10 082 70	**1m**
10 082 71	**1.5m**
10 082 72	**2m**

TITAN™ R14

ADJUSTABLE WITHOUT CONNECTORS

REF.
10 082 73 **1.8m**

MODEL	REFERENCE	LENGTH (M)	CONNECTOR	CONNECTOR
MD00	1002881	1	Loop	ML00
MD00	1002882	2	Loop	ML00
MD02	1002883	1	CS20	CS20
MD02	1002884	2	CS20	CS20
MD02	1004711	1.5	CS20	CS20
MD06	1002887	0.35	Loop	2 x ML00

Work positioning lanyards

REGLEX 3000

OFFERS A CONTINOUS ADJUSTMENT,
THIS WORK-POSITIONING LANYARD CAN BE EASILY OPERATED WITH ONE-HAND.

2m to 4m - Work positioning lanyard equipped with a cam type adjuster in stainless steel

▲ BENEFITS: User friendly

- Allows the operator a comfortable hands-free work position
- Easy to use and to setup
- One hand adjustment
- End splice to prevent the rope adjuster to be removed

▶ FEATURES: Designed to fit around a structure and connect to harness side D-rings

- Cam type adjuster in stainless steel
- Polyester, 14mm, 3-strand rope
- Progressive adjustment
- With or without rope protection sleeve
- Double action snap hook and a screw gate karabiner CS20

REF.	LENGTH
With protection sleeve	
10 031 10	**2m**
10 031 11	**3m**
10 031 12	**4m**
Without protection sleeve	
10 031 04	**2m**
10 031 05	**3m**
10 031 06	**4m**

MC03

2M TO 4M

▲ BENEFITS: Ideal for those who have to work at height in a safe and supported hands-free position

- Easy to connect to the side D-rings of the harness

▶ FEATURES: Easy to use

- Jaw type length adjuster for progressive one-handed adjustment
- Ø 16mm polyamide rope
- Connectors: galvanised steel karabiner and alloy snap hook, 18mm opening

REF.	LENGTH
10 028 78	**2m**
10 028 79	**3m**
10 028 80	**4m**

TITAN™

ADJUSTABLE WORK POSITIONING LANYARD

▲ BENEFITS:

- Easy to use
- Adjustable

▶ FEATURES:

- Adjustable 12mm or 14mm polyamide rope lanyard
- Length 1.8m to 2m

REF.	LENGTH	CONNECTORS
12MM		
10 082 85	**1.80m**	No connector
10 082 87	**2m**	Loop and twistlock karabiner
10 082 88	**2m**	2 twistlock karabiners
14MM		
10 082 86	**2m**	Loop and 18mm snap hook

Manyard® shock absorbing lanyard

Light and stretchable, Manyard® moves with you.

After fall

STRETCHABLE SHOCK-ABSORBING LANYARD

FOR REDUCED TRIPPING HAZARDS

▲ BENEFITS: Reduces fall arrest forces

- A unique stretchable design for greater manoeuvrability and safety
- When contracted, it greatly reduces the risk of tripping, snagging and dragging
- Reliable visual inspection
- Improved durability

▶ FEATURES: Improves safety and reliability

- Heavy-duty tubular outer jacket acts as a protective sleeve
- Polyamide webbing
- Special woven shock-absorbing inner core
- Unique warning flag provides visual proof that a lanyard has been involved in a fall
- The integral red core becomes visible if the outer jacket is damaged or worn, and unfit for service
- Hi-tech protective finish on the outer tubular jacket prolongs the service life of the Manyard®
- Supplied with a pull away connection clip attaches to the harness to hold the Manyard® when not in use, thus limiting tripping risks

❱ Conforms to EN355

REF.	LENGTH
ME86 – Manyard® with 65mm scaffold hook and galvanised connector	
10 053 24	1.5m
10 053 25	2m
ME82 – Manyard® with 2 galvanised connectors (ML00)	
10 053 17	1.5m
10 053 18	2m
ME83 – Manyard® with snap hook and galvanised connector	
10 053 26	1.5m
10 053 27	2m
Forked Manyard® with two 65mm scaffold hook and galvanised connector	
10 139 70	1.5m
10 134 91	2m

Barracuda™ lanyard

Scaffolding lanyard

The ultimate fall protection solution for scaffolders.

BARRACUDA™

COMBINATION OF VERTICAL ANCHORAGE CLAMP WITH
A FALL ARREST LANYARD IN ONE COMPACT UNIT
1.75M SCAFFOLDING LANYARD

▲ BENEFITS: Safer fall arrest system for vertical scaffolding tubes

- Elasticated lanyard reduces tripping and snagging hazards
- Enhances safety of workers erecting, dismantling and altering scaffolding
- Allows anchorage above waist height reducing fall arrest forces and the risk of injury
- One hand operation

▶ FEATURES: Gripping mechanism locks on the vertical tube under load

- Vertical scaffold clamp and screwgate karabiner
- Integrated shock absorber
- For tube diameter from 48.3 to 50mm
- Polypropylene grip for easy handling
- Weight: 1.2kg including lanyard
- Hi-tech protective finish helps to prolong the service life of the unit
- Stainless steel connecting device for corrosion resistance

REF.	DESCRIPTION
10 104 70	Barracuda™ 1.75m Elasticated Manyard®
10 101 41	Barracuda™ 1.75m Lanyard with shock absorber
10 086 71	Adjustable Barracuda™ 1.2m Lanyard with shock absorber

❱ Conforms to EN355 and EN795b

Edge-tested

Shock absorbing lanyard and Manyard®

Edge resistant lanyards & Manyards: Unique solutions to solve the technical problem posed by the breakage of fall protection equipment on edges!

FALL PROTECTION IN EDGE SITUATIONS

▲ BENEFITS: Mechanical properties resistant against cutting and shearing

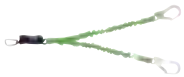
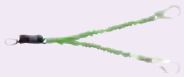
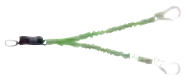
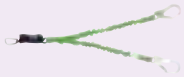
- Shock absorber reduces forces < 6kN
- Reduces fall arrest forces
- Stretchable: reduced product length, avoids the risk of tripping or snagging
- Increased security & guaranteed reliability
- Innovative technology
- Elasticity and shearing resistance

▶ FEATURES: Patented core-yarn technology

- Identifiable green tubular webbing with a black stripe
- Wrapped filament combining two types of thread: one shock absorbent and one abrasion resistant
- Integrated shock absorber
- Built-in warning flag

❱ Conforms to the standard EN355: 2002

EDGE-TESTED SHOCK ABSORBING MANYARD®

REFERENCE	DESCRIPTION	USER CONNECTOR	ANCHORAGE CONNECTOR
1017916	2m MANYARD® Edge tested + Scaffold hook with large opening + Screwgate karabiner	Steel screwgate karabiner CS20	Scaffold hook, large opening aluminium 65mm
1017918	2m MANYARD® Edge tested + 2 Screwgate karabiners	Steel screwgate karabiner CS20	Steel screwgate karabiner CS20
1028520	1.5m twin MANYARD® Edge tested	Steel screwgate karabiner CS20 	Scaffold hook, large opening 55mm
1028521	2m twin MANYARD® Edge tested	Steel screwgate karabiner CS20 	Scaffold hook, large opening 55mm
1028522	2m twin MANYARD® Edge tested	Steel screwgate karabiner CS20 	Scaffold hook, large opening 65mm
1028523	1.5m twin MANYARD® Edge tested	Steel screwgate karabiner CS20 	Scaffold hook, large opening 65mm

EDGE-TESTED KERNMANTEL SHOCK ABSORBING LANYARDS

LANYARD	DESCRIPTION	USER CONNECTOR	ANCHORAGE CONNECTOR
1016847	Rope lanyard with shock absorber 2m D12 Edge tested	Snap hook, small opening aluminium	Scaffold hook, large opening aluminium
1016848	Rope lanyard with shock absorber 2m D12 Edge tested	Steel screwgate karabiner CS20	Steel screwgate karabiner CS20
1016849	Rope lanyard with shock absorber 2m D12 Edge tested	Steel screwgate karabiner CS20	Scaffold hook, large opening aluminium 65mm
1016850	Rope lanyard with double shock absorber 1.5m D12 Edge tested	Steel screwgate karabiner CS20	2 x Scaffold hook, large opening aluminium 65mm
1018035	Rope lanyard with double shock absorber 1.5m D12 Edge tested	Aluminium screwgate karabiner CS20	2 x Scaffold hook, large opening aluminium 110mm

Lanyards technical guide

MODEL	STANDARDS	WEIGHT	WEBBING	ROPE	SIMPLE	FORKED	1 METER	1.5 METER	1.8 METER	2 METERS	USER CONNECTOR	ANCHORAGE CONNECTOR	PAGE No
SHOCK ABSORBING LANYARD AND MANYARD®													
AMORSTOP	EN355	400g		•	•			1003220			None	None	69
AMORSTOP	EN355	625g		•	•			1003216			CS20	CS20	69
ME54	EN355	940g		•	•			1005278			CS20	Scaff hook 55mm	69
ME53	EN355			•	•			1005290			CS20	Snap hook	69
Titan™ B	EN355	400g		•	•				1008275		Thimbled loops	Absorber	69
ME51	EN355	1,030g		•	•					1002906	CS20	Scaff hook 65mm	69
ME52	EN355	770g		•	•					1002907	CS20	CS20	69
ME53	EN355	750g		•	•					1004578	CS20	Snap hook	69
ME54	EN355	980g		•	•					1004591	CS20	Scaff hook 55mm	69
Titan™ B1	EN355	637g		•	•					1008276	CS20	Snap hook	69
Titan™ C3	EN355	870g		•	•					1008281	CS20	Scaff hook 65mm	69
Titan™	EN355	930g	•		•			1014330			CS20	CS20	70
ME00	EN355	340g	•		•				1002901		No	No	70
ME02	EN355	680g	•		•					1002903	CS20	CS20	70
ME03	EN355	510g	•		•					1002904	Triple action	Triple action	70
ME06	EN355	900g	•		•			105279		1004579	CS20	Scaff hook 65mm	70
Titan™ A2 / A3	EN355	760g	•		•				1015140	1013430	CS20	Scaff hook 65mm	70
Forked lanyard	EN355	720g	•			•	1003232				1/4 Turn	2xGO60	71
Forked lanyard	EN355	1,240g	•			•	1003233				1/4 Turn	2xScaff hook 65mm	71
Forked lanyard	EN355	850g	•			•		1005131			1/4 Turn	2xGO60	71
Forked lanyard	EN355	640g	•			•		1007013			1/4 Turn	Twist lock	71
Forked lanyard	EN355	440g	•			•		1007015			No	No	71
Forked lanyard	EN255	1,010g	•			•		1010206			1/4 Turn	2xScaff hook 65mm	71
ME05	EN355	1,500g	•			•				1004590	CS20	2xScaff hook 65mm	70
ME01	EN355	940g	•			•				1002902	1/4 Turn	2xCS20	70
Forked lanyard	EN355	922g	•			•				1003235	1/4 Turn	2xGO60	71
Titan™	EN355	1,550g	•			•				1013431	CS20	2xScaff hook 65mm	75
Edge tested	EN355	1,077g		•	•					1016847	SnapHook	Scaff hook 65mm	75
Edge tested	EN355	815g		•	•					1016848	CS20	CS20	75
Edge tested	EN355	1,096g		•	•					1016849	CS20	Scaff hook 65mm	75
Edge tested	EN355	1,480g		•		•		1016850			CS20	2xScaff hook 65mm	75
Edge tested	EN355	2,600g		•		•		1018035			CS20	2xGO100	75
Atex	EN355/ATEX		•			•		1015859			CS20	2xGO60	71
STRETCHABLE SHOCK ABSORBING LANAYRD													
Manyard® ME86	EN355	950g	•		•			1005324			CS20	Scaff hook 65mm	74
Manyard® ME82	EN355	620g	•		•			1005317			CS20	CS20	74
Manyard® ME83	EN355	680g	•		•			1005326			CS20	Snap Hook	74
Manyard® ME86	EN355	980g	•		•					1005325	CS20	Scaff hook 65mm	74
Manyard® ME82	EN355	740g	•		•					1005318	CS20	CS20	74
Manyard® ME83	EN355	780g	•		•					1005327	CS20	Snap hook	74
Barracuda	EN355/ EN795	1,310g	•		•				1010470 (1.75m)		CS20	Barracuda	74
Edge tested	EN355	1,260g	•		•					1017916	CS20	Scaff hook 65mm	75
Edge tested	EN355	920g	•		•					1017918	CS20	CS20	75
Barracuda	EN355/ EN795	1,215g		•	•		1008671 (1.20m)				CS20	Barracuda	75
Barracuda	EN355/ EN795	1,195g		•	•				1010141 (1.75m)		CS20	Barracuda	75
Twin Edge tested lanyard	EN355	1,680g	•			•				1018521	CS20	2xScaff hook 55mm	75

MODEL	STANDARDS	WEIGHT	WEBBING	ROPE	SIMPLE	FORKED	1 METER	1.5 METER	1.8 METER	2 METERS	USER CONNECTOR	ANCHORAGE CONNECTOR	PAGE N°
STRETCHABLE SHOCK ABSORBING LANAYRD													
Twin Edge tested lanyard	EN355	1,580g	•			•				1028522	CS20	2xScaff hook 65mm	75
Twin Manyard©	EN355	1,700g	•			•		1013970			CS20	2xScaff hook 65mm	75
Twin Manyard©	EN355	1,900g	•			•				1013491	CS20	2xScaff hook 65mm	75
RESTRAINT LANYARD													
MD00	EN354	300g		•	•		1002881				Spliced loops	CS20	72
MD02	EN354	480g		•	•		1002883				CS20	CS20	72
Titan™	EN354	150g		•	•		1008270				Thimbled loops	Thimbled loops	72
MD02	EN354	530g		•	•			1004711			CS20	CS20	72
Titan™	EN354	190g		•	•			1008271			Thimbled loops	Thimbled loops	72
Titan™	EN354	335g		•	•				1008273		Thimbled loops	Thimbled loops	72
MD02	EN354	400g		•	•					1002882	Spliced loops	CS20	72
MD02	EN354	580g		•	•					1002884	CS20	CS20	72
Titan™	EN354	275g		•	•					1008272	Thimbled loops	Thimbled loops	72
WORK POSITIONING LANYARD													
Titan™	EN358	320g		•	•				1008285		No	No	73
MC03	EN358	940g		•	•					1002878	Spliced loops	Snap hook	73
MC03	EN358	1,130g		•	•					1002879 (3m)	Spliced loops	Snap hook	73
MC03	EN358	1,280g		•	•					1002880 (4m)	Spliced loops	Snap hook	73
Reglex 3000 + rope protector	EN358	1,170g		•	•					1003110	Spliced loops	Snap hook	73
Reglex 3000 + rope protector	EN358	1,308g		•	•					1003111 (3m)	Spliced loops	Snap hook	73
Reglex 3000 + rope protector	EN358	1,436g		•	•					1003112 (4m)	Spliced loops	Snap hook	73
Reglex 3000	EN358	1,080g		•	•					1003104	Spliced loops	Snap hook	73
Reglex 3000	EN358	1,230g		•	•					1003105 (3m)	Spliced loops	Snap hook	73
Reglex 3000	EN358	1,380g		•	•					1003106(4m)	Spliced loops	Snap hook	73
Titan™	EN358	600g		•	•					1008286	Spliced loops	Snap hook	73
Titan™	EN358	400g		•	•					1008287	Spliced loops	Twist lock	73
Titan™	EN358	450g		•	•					1008288	CS20	CS20	73

Rope and Cable Fall Arresters

Light, industry-proven, stainless steel automatic or manual fall arresters, rope grabs and cable grabs prevent workers from falling during ascent or descent for both vertical and horizontal applications. Particularly useful on sloping roofs where retractable lifelines may react too slowly. In the event of a fall or slip, they lock onto the rope or cable, arresting the fall immediately.

STICK RUN

ROPE GRAB FOR VERTICAL, HORIZONTAL AND SLOPING APPLICATIONS

▲ BENEFITS:

- Easy to use
- Automatic mode for vertical user
- Manual mode for work positioning in horizontal and sloping use
- Stick run glides freely over the line without manual intervention

▶ FEATURES:

- Rope grab in stainless steel
- Suitable for 10/12mm or 14/16mm rope
- Automatic locking for vertical use
- Weight: 0.62kg
- Manual locking position for horizontal work and restraint purposes, repositioning manually along rope

MF51	FOR ROPE Ø
10 076 40	**10mm/12mm**
10 028 75	**14mm/16mm**

MF52	FOR ROPE Ø
10 076 18	**10mm/12mm + 0.3m lanyard and connector (ML00)**
10 028 76	**14mm/16mm + 0.3m lanyard and connector (ML00)**

❱ Conforms to EN353-2

ROCKER ROPE LOCK

AUTOMATIC ROPE GRAB FEATURES WORK POSITIONING FUNCTION

▲ BENEFITS:

- Fall arrester and work positioning device
- Versatile and lightweight fall arrest system
- Designed for use in conjunction with a manual descender or technical rope access or rescue
- Compact and easy-to-use
- Locking catch can be activated to hold the Rocker in position on the rope

▶ FEATURES:

- Easy-to-use automatic rope grab (EN353-2)
- Manual rope positioning (EN353-2)
- Length adjuster for positioning lanyard
- Tensioning device for horizontal lifeline
- Pulley blocking device
- Suitable for 10/12mm rope
- Weight: 0.17kg

REF.	
10 070 31	
10 102 21	**black**

❱ CE certified Rope grab: EN353-2; Work positioning EN358 recommended for use with kernmantel rope Miller ref.

TITAN™ ROPE GRAB

ROPE GRAB FOR BOTH VERTICAL AND HORIZONTAL APPLICATIONS

AUTOMATIC ROPE GRAB WITH ANCHORAGE LINE FROM 10M TO 30M

▲ BENEFITS:

- Automatically locks onto the rope in the event of a fall
- Moves on the rope without manual intervention
- 0.3m lanyard and connector facilitates attachment to harness
- Easy-to-use design with hands-free operation for maximum freedom of movement

▶ FEATURES:

- Durable and corrosion-resistant stainless steel construction
- Lightweight
- Includes rope anchorage line
- Diameter 12mm

REF.	LENGTH
Rope grab	
10 111 90	**10m**
10 117 00	**15m**
10 111 91	**20m**
10 111 92	**30m**
Anchorage line only – diameter 12mm	
10 113 44	**10m**
10 113 45	**20m**
10 113 46	**30m**

❱ CE Certified and conforms to EN353-2

ALTOCHUT

ROPE GRAB FOR VERTICAL USE

▲ BENEFITS:

- Prevents workers from falling during ascent or descent
- Glides freely along the rope without manual intervention
- Offers a more comfortable attachment to the front anchorage point on the harness

▶ FEATURES:

- Rope grab in stainless steel
- Suitable for 10/12mm or 14/16mm ropes
- Weight: 0.5kg

REF.	ROPE
10 029 33	**10mm/12mm**
10 029 37	**14mm/16mm**
10 030 64	**10mm/12mm + 0.3m lanyard and connector (ML00)**
10 030 71	**14mm/16mm + 0.3m lanyard and connector (ML00)**

❱ Conforms to EN353-2

ANCHORAGE LINE

SUITABLE FOR VERTICAL, HORIZONTAL AND SLOPING APPLICATIONS

▲ BENEFITS:

- Can be installed by means of the telescopic pole and anchorage connector

▶ FEATURES:

- Twisted polyamide rope or kernmantel rope
- Supplied with galvanised connector and counterweight
- Anchorage line is suitable for use with a 10/12mm or 14mm/16mm rope grab
- Available in various lengths

LENGTH	TWISTED POLYAMIDE ROPE, DIAM. 14MM WITH COUNTERWEIGHT AND SCREWGATE KARABINER	KERNMANTEL ROPE, DIAM. 10.5MM WITH COUNTERWEIGHT AND SCREWGATE KARABINER	KERNMANTEL ROPE, DIAM. 11MM, WHITE	KERNMANTEL ROPE, DIAM. 11MM, BLACK	NYLON ROPE, DIAM.12MM WITH 2 STITCHED SPLICES
10m	1002891	1007613			
20m	1002892	1007614			
25m					1011726
30m	1002893	1007615			
35m					1011723
40m	1002894	1007616			
45m					1011724
50m	1002895	1007617	1010185		
60m					
100m				1010187	
200m			1010182		

Connectors

Screw gate karabiners

Ⓐ CS20

- Material: Steel
- Opening: 17mm
- Resistance: 25kN
- Dim. :104 x 58mm
- Weight: 165g
- Multi-purpose karabiner

REF.
10 189 60

› Conforms to Standard: EN362 Class B

Ⓐ CS20 ALU

- Material: Aluminium
- Opening: 17mm
- Resistance: 23kN
- Dim.: 111 x 60mm
- Weight: 80g
- Multi-purpose karabiner

REF.
10 092 76

› Conforms to Standard: EN362 Class B

Ⓐ ML01

- Material: Aluminium
- Opening: 19mm
- Resistance: 30kN
- Dim.: 110 x 65mm
- Weight: 90g
- Pear-shaped for easier belay

REF.
10 028 33

› Conforms to Standard: EN362 Class B

Ⓐ ML06

- Material: Aluminium
- Opening: 21mm
- Resistance: 22 kN
- Dim.:123 x 72mm
- Weight: 93g
- Multi-purpose karabiner

REF.
10 189 61

› Conforms to Standard: EN362 Class B

Twist lock karabiners

Ⓐ CS20

- Material: Steel
- Opening: 17mm
- Resistance: 25kN
- Dim.: 104 x 58mm
- Weight: 172g

REF.
10 189 63

› Conforms to Standard : EN362 Class B

Ⓐ ZICRAL

- Material: Aluminium
- Opening: 16mm
- Resistance: 28kN
- Dim.: 107 x 61mm
- Weight: 75g
- Shape facilitates belay technique

REF.
10 189 68

› Conforms to Standard: EN362 Class B

Ⓐ ZICRAL2

- Material: Aluminium
- Opening: 18mm
- Resistance: 23kN
- Dim.: 111 x 60mm
- Weight: 90g

REF.
10 083 42

› Conforms to Standard: EN362 Class B

Ⓐ SUPER-TOP

- Material: Aluminium
- Opening: 20mm
- Resistance: 22kN
- Dim.: 123 x 70mm
- Weight: 90g

REF.
10 189 69

› Conforms to Standard: EN362 Class B

Double action karabiners and hooks

A GO30

- Material: Aluminium
- Opening: 28mm
- Resistance: 25kN
- Dim.: 159 x 74mm
- Weight: 130g

REF.
10 043 00

› Conforms to Standard: EN362 Class T

A GO60

- Material: Aluminium
- Opening: 60mm
- Resistance: 23kN
- Dim.: 240 x 113mm
- Weight: 244g
- Self-locking opening and rope latch

REF.
10 189 72

› Conforms to Standard: EN362 Class A

A SNAP HOOK

- Material: Steel
- Opening: 18mm
- Resistance: 25kN
- Dim.: 132 x 64mm
- Weight: 240g

REF.
10 189 73

› Conforms to Standard: EN362 Class T

A GO55

- Material: Steel
- Opening: 55mm
- Resistance: 23kN
- Dim.:218 x 115mm
- Weight: 450g

REF.
10 092 49

› Conforms to Standard: EN362 Class A

A GO85

- Material: Steel
- Opening: 85mm
- Resistance: 23kN
- Dim.: 332 x 160mm
- Weight: 840g

REF.
10 092 58

› Conforms to Standard: EN362 Class A

A GO100

- Material: Aluminium
- Opening: 110mm
- Resistance: 27kN
- Dim.: 350 x 165mm
- Weight: 900g

REF.
10 189 76

› Conforms to Standard: EN362 Class A

A ML04

- Material: Aluminium
- Opening: 63 mm
- Resistance: 22kN
- Dim.: 255 x 120 mm
- Weight: 470g

REF.
10 189 77

› Conforms to Standard: EN362 Class A

Triple action karabiners

A FRELON

- Material: Aluminium
- Opening: 22mm
- Resistance: 22kN
- Dim.:117 x 77mm
- Weight: 100g
- Pear-shaped for easier belay
- Wide opening for several ropes

REF.
10 189 71

› Conforms to Standard: EN362 Class B

A CIGALE

- Material: Aluminium
- Opening: 20mm
- Resistance: 24kN
- Dim.: 110 x 64mm
- Weight: 80g
- Aluminium metal D-ring.
  Round thread for easier insertion
  into the connecting parts

REF.
10 286 30

› Conforms to Standard: EN362 Class B

Anchorage Points

One of the most important aspects of a fall protection system, it is important to select a reliable anchorage point (A) to ensure full safety. This should:

- Have a static resistance > 10kN
- Be located at a safe distance above any lower obstacles
- Be as vertical as possible to the work station to avoid the swing effect

WEBBING ANCHORAGE SLING

ALLOWS A RELIABLE CONNECTION POINT WHICH ADAPTS TO A WIDE RANGE OF ANCHORAGE POINTS

▲ BENEFITS: The anchorage sling provides a secure anchorage point for the fall arrest device

- Easy to install
- Lightweight
- Reliable
- High breaking strength
- Sheathed end of sling to resist abrasion from connector

▶ FEATURES:

- 23mm yellow polyester webbing
- Breaking strength: > 15KN
- Coloured coded to differentiate lengths

REF.	LENGTH
10 029 16	0.6m
10 029 17	0.8m
10 032 45	1.0m
10 029 18	1.2m
10 029 19	1.5m

❱ Conforms to EN795b

TITAN™

WEBBING ANCHORAGE SLING

▲ BENEFITS: The anchorage sling provides a secure anchorage point for the fall arrest device

- High breaking strength
- Lightweight
- Safe and easy-to-install anchorage point

▶ FEATURES:

- 20mm red and black polyamide webbing
- Breaking strength: > 10kN

REF.	LENGTH
10 083 60	0.6m
10 083 61	0.8m
10 083 62	1m
10 083 63	1.2m
10 083 64	1.5m

❱ Conforms to EN795b

MJ51 STEEL SLING

▲ BENEFITS: Easy-to-install

- Large opening for anchorage to girders, beams
- High breaking strength

▶ FEATURES: Galvanised steel

- 6.3mm galvanised steel with protective plastic sheath
- Breaking strength: >15kN

REF.	
10 028 97	1m
10 031 78	2m
10 031 79	3m

❱ Conforms to EN795b

GIRDER GRIP MJ52

▲ BENEFITS: Easy to use and open

- Lightweight

▶ FEATURES: Stainless steel

- 75mm to 140mm opening cable girder grip
- Breaking strength >30kN

REF.	OPENING
10 189 79	75mm
10 189 80	100mm
10 189 81	140mm

❱ Conforms to EN362 Class A

Crochevit, Jiraf to be used with: Telescopic pole
from 6 to 9.40m
see p84

ANCHORAGE PLATE

▲ BENEFITS:
- Fall indicator allows the device to be checked easily

▶ FEATURES: Stainless steel
- Fixing point diameter: Ø 13mm
- Weight: 0.062kg
- Maximum load before deformation: 300kN
- Breaking strength: >20kN

REF.
10 029 96

❱ Conforms to EN795 Class A1

CROCHEVIT JIRAF

▲ BENEFITS: Allows an anchorage point to be installed at distance over head
- Large opening aluminium connector
- Used in conjunction with a telescopic pole

▶ FEATURES:
- Aluminium connector
- Opening 150mm
- Weight: 1.3kg

REF.
10 028 99

❱ Conforms to EN795 Class B

GO100 JIRAF

▲ BENEFITS: Easy-to-fit anchorage connector for use with telescopic pole
- Opening to suit scaffolding tubes
- Used in conjunction with a telescopic pole

▶ FEATURES:
- Aluminium connector
- Opening: 110mm
- Weight: 1.48kg

REF.
10 029 81

❱ Conforms to EN795 Class B

GO65 JIRAF

▲ BENEFITS: Easy-to-fit anchorage connector for use with telescopic pole
- Opening to suit scaffolding tubes
- Used in conjunction with a telescopic pole

▶ FEATURES:
- Aluminium connector
- Opening: 65mm
- Weight: 1.05kg

REF.
10 029 00

❱ Conforms to EN795 Class B

CROCHEVIT – MJ50

▲ BENEFITS: Easy-to-install
- Large opening ideal for anchorage to girders, beams
- High breaking strength
- Used in conjunction with a telescopic pole

▶ FEATURES:
- Aluminium connector
- Opening: Ø 150mm (or 120 x 120mm square structure)
- Weight: 1.32kg
- Breaking strength: >22kN

REF.
10 028 96

❱ Conforms to EN795b Class B

Anchorage Points

JIRAF

Telescopic pole to be used with: Crochevit, MJ50, Jiraf

see p83

SERPENT TEMPORARY HORIZONTAL LIFELINE

THE DURABLE SOLUTION FOR CONSTRUCTION

▲ BENEFITS:

- Offers a large working area
- Fast and easy to install
- For use by one or 2 workers
- Maximum working length 20 metres
- Fixing to either permanent anchorage points or temporary webbing anchorage slings

▶ FEATURES:

- Durable braided rope with two galvanised connectors
- Supplied with length adjuster, karabiners, end stop and two 1.5m webbing anchorage slings
- Rope in polyester Ø14mm
- Connectors in galvanised steel

REF.
10 076 10

❱ Conforms to EN795b

BEAM GLIDE

▲ BENEFITS:

- Fully adjustable beam anchorage device
- Suitable for beam widths from 75mm to 360mm

▶ FEATURES

- Aluminium construction
- Breaking strength: 22kN
- Weight: 1.4kg

REF.
10 070 66

❱ Conforms to EN795b

TELESCOPIC POLE

FIXING AN ANCHORAGE POINT FROM A DISTANCE

▲ BENEFITS: Light-weight

- Compact for easy transportation
- Easy vertical deployment

▶ FEATURES: Fibreglass telescopic pole

- 3 elements for easier deployment from the ground
- Retracted length: 2.6m

REF. MK00	EXTENDED LENGTH
10 028 98	**7.5m**

REF. JIRAF	EXTENDED LENGTH
10 066 29	**6m**
10 029 79	**9.40m**

- 5 elements for easier deployment from the ground
- Retracted length: 2.44m

SOLL ANCHORAGES

SCREW-FIX EYES WITH EN795-A* AND EN50308 CERTIFICATION

▲ BENEFITS:

- Easy to install* in threaded holes or with self-locking nuts
- Rated for two persons or 22kN

▶ FEATURES:

- High-visibility EN50308 yellow colour
- Corrosion-resistant stainless steel

REF.

10 315 82	**Fixed eyebolt**
10 304 91	**Swivel eye**
10 315 84	**Turntable eye**

- Swivel anchorage eye with a unique S-shaped profile
- Safely deforms under excessive load, giving a clear indication of the need for replacement after a fall

REF.
10 315 81 **Load-indicating eye**

* EN765-A anchorages should be installed by a competent engineer in accordance with approved national standards, and inspected at least once every 12 months (6 months if used for work positioning or suspension).

DURAHOIST™ TOTEM ANCHORAGE POST

SECURING ACCESS AND MAINTENANCE WORK WITH LOW SPACE CLEARANCE

Designed to provide a safe anchorage point

▲ BENEFITS: Work safely in factor 1

- Removable post
- Light and very easy to transport with 2 handles
- Easy to set up in the base plate
- Insertion indicator – red mark to ensure correct installation
- Fall factor 1 anchorage point at shoulder level, reduces fall clearance

▶ FEATURES: Lightweight and resistant

ALUMINIUM POST

- "S" anchorage with fall indicator deformed in case of a fall
- Fall indicator: S deformed in case of fall
- 2 operators maximum on each S – up to 4 operators
- Light: only 7.5kg

STAINLESS STEEL BASE PLATE

- 4 anchorage points on the base plate and 2 operators maximum on each anchorage point
- Screwed with welded threaded rod
- Weight: 13kg

REF.

ALUMINIUM POST

10 295 02

❱ Conforms to EN795 class A-1, when used with the plate

STAINLESS STEEL BASE PLATE

10 295 03

ACCESSORY

10 297 20 **TOTEM transportation bag**

❱ Conforms to EN795 class A-1

Rescue & Evacuation

Technical access: ASCENDER

ROPE ASCENDER

▲ BENEFITS:
- Ascenders are designed to connect easily onto the rope with one hand
- Comfortable and efficient grip for improved climbing control

▶ FEATURES:
- Ideally used in conjunction with a foot-loop
- The manual ascender incorporate a lightweight alloy handle
- Enables the operator to ascend a fixed rope
- For rope diameters 10-13mm
- Weight 0.21kg

REF.
Right-hand ascender
10 070 41

Left hand ascender
10 073 93

❱ Conforms to EN567

CAM-CLEAN ASCENDER

▲ BENEFITS: Increase safety
- Used in conjunction with the rope ascender
- Chest ascender designed to hold the operator in a comfortable upright position

▶ FEATURES:
- Rope diameter: 8mm to 12mm
- Anti return system
- Weight: 0.16kg

REF.
10 042 54

❱ Conforms to EN567

SLING AND FOOT LOOP SET

▲ BENEFITS: Foot lock technique to climb
- Used in conjunction with the Rope Ascender and Cam-Clean
- Shorco Sling and Foot loop set allows a fixed rope to be climbed by using the Foot Lock Technique

▶ FEATURES:
- Polyester webbing with karabiners

REF.
10 101 68

ABS LOCK

▲ BENEFITS: Practical
- Used to belay from the ground the person equipping a structure with temporary anchor points

▶ FEATURES:
- Automatic and dynamic belay system
- To use with 9mm to 11mm rope
- Weight: 0.103kg

REF.
10 042 10

Technical access: DESCENDER

INDY DESCENDER

PERFECTLY ADAPTED TO RESCUE & EVACUATION

▲ BENEFITS: The operator's safety is guaranteed

- Ergonomic and easy-to-use
- Descent is activated and controlled through pressure onto the handle
- Descent stops if the pressure on the handle is too weak or strong

▶ FEATURES: Aluminium & stainless steel

- Anti-panic auto-braking system
- Maximum descent speed: 2m/s
- Suitable for 10-13mm rope
- Weight: 0.49kg

REF.
10 042 53

› Conforms to EN341 Class A

PROALLP TECH DESCENDER

▲ BENEFITS: Control and versatility

- Ideal for technical access, rescue and intervention

▶ FEATURES: Screw and autolock controlled rate rope descender

- Light alloy material
- Designed to hold up to two people (max. 250kg) in a rescue scenario
- Option of both screw and auto-lock controlled-rate rope descent
- Includes ascender, belay brake, tensioned line brake and hauling system brake function
- Suitable for 10-13mm kernmantel rope
- Weight: 0.62kg

REF.
10 070 57
10 102 22 **Black**

› Conforms to prEN12841C

FIG 8 DESCENDER

▲ BENEFITS: Lightweight

▶ FEATURES:

- Aluminium
- Rescue descender for 9-12mm braided rope
- Weight: 0.13kg

REF.
10 102 20

Rescue & Evacuation

Descent devices

MILLER SAFESCAPE® ELIT

RESCUE AND DESCENT DEVICE FOR EMERGENCY SITUATIONS
IDEAL FOR RESCUE AND DESCENT FROM 20M TO 500M ROPE

▲ BENEFITS: Ensure the safety of the people working at height

- Enhanced safety in the harshest conditions
- Greater cost-savings: recertification required only after seven years
- Lightweight and compact design
- Optional hoisting wheel and/or ladder bracket available
- Global solution-meets all applicable safety standards worldwide

▶ MATERIAL: Engineered to comply with the most rigorous testing methods

- High-quality anodised aluminium housing
- Centrifugal brake controls the descent and reduces vibration
- Descent loads possible from 30kg – 250kg (2 people)
- Maximum descent height of 500m
- Descent is quick (1m/s) and smooth
- Use in an emergency by 2 people weighing up to 250kg

REFERENCES ON DEMAND, DEPENDING ON THE ROPE LENGTH.
Please contact your customer service for more information
=> without handwheel
=> with handwheel
=> with handwheel and handle
=> with handwheel and ladder bracket*

❱ Conforms to EN341/1992 standard & prEN341/2009 standard, CE certified and meets ANSI and OSHA requirements

MILLER SAFESCAPE® ELITE CASE

NEW GENERATION STORAGE SOLUTION FOR THE MILLER SAFESCAPE ELITE

▲ BENEFITS:

- Ten years safekeeping without inspection – Cost savings
- Rescue equipment can be safely stored for up to ten years without the need for costly inspection. Components must be inspected every ten years allowing a lower cost and inspection down time.
- Vibration tested and easy to inspect
- The case and its contents have been tested according to EN60068
- Humidity check using a hygrometer, which is visible externally
- Robust and simple
- The rigid-foam insert has been specially designed to protect the rescue set against vibration.
- Case is made out of unbreakable polypropylene, and its Ingress Protection (IP) is IP67, making it completely waterproof and dust-tight.

▶ FEATURES:

- Temperature range: -40°C to 99°C
- Material:
  - Body: Polypropylene
  - Latch: ABS
  - Lid O-Ring: Polymer
  - Foam: Plastozote LD29
  - Purge Vent: 3 Micro Hydro-phobic Non-Woven PET

REFERENCES ON DEMAND, DEPENDING ON THE ROPE LENGTH.
Please contact your customer service for more information
=> without handwheel
=> with handwheel
=> with handwheel and handle
=> with handwheel and ladder bracket*

❱ Conforms to EN341/1992 standard & prEN341/2009 standard, CE certified and meets ANSI and OSHA requirements

Other case sizes with a different selection of content are also available on demand

TRAINING

Training is an essential part of any rescue and evacuation operation and Miller offers a complete set of rescue training courses to suit all areas of industry and the emergency services. Miller offers set or tailor-made courses, including theory and practice. Training sessions can be provided worldwide in our training centers or on site.
Miller provides a complete solution for rescue and evacuation.

RESCUE CARRYING BAG

▲ BENEFITS:
- Carry the Miller SafEscape ELITE, rope and accessories

▶ FEATURES:
- Waterproof

REF.	SIZE
10 101 91	M - 23cm/59cm
10 101 90	L - 26cm/69cm
10 293 40	XL - 48cm

A C

MILLER SAFESCAPE® ELITE

GENERAL RESCUE KIT WITH 80M ROPE

▲ BENEFITS:
- All in one rescue kit

▶FEATURES:
- 1 Miller SafEscape ELITE with handwheel and Ladderadapter, fitted with 80m rope
- 1 Red rescue carrying bag
- 2 Slings of 1,2 m
- 1 Rope grab
- 4 Carabiners
- 1 Pulley
- 1 Edge protection
- 1 T-Bar

REF.
10 293 50

A C

SAFESCAPE® ELITE EVACUATION KIT

DESCENT KIT FOR EMERGENCY

▲ BENEFITS: all in one bag
- Usable for 2 persons

▶FEATURES:
- Included a Safescape ELITE
- Anchorage slings
- Waterproof bag

REF.
10 293 50

Rescue & Evacuation

QUADPOD*

MOBILE ANCHORAGE POINT

▲ BENEFITS: Ideal for cliff top rescue and confined space
- Stability even on rough terrain
- Durability even in harsh environments thanks to its design

▶ FEATURES: Multi-positioning
- Removable and adjustable legs each extend from 1.35m to 2.30m
- Pivoting rubber studded feet
- High grade corrosion resistant aluminium
- Safe working load: 500kg
- Weight 12.5kg
- Supplied with carrying bag

*Recommended to use in conjunction with Self tailing winch

REF.
10 070 27

❱ Conforms to EN795 Class B

SELF TAILING WINCH

▲ BENEFITS:
- Highly efficient, two speed rope winch for use in conjunction with Quadpod
- Self-tailing winch keeps both hands free to turn the handle

▶ FEATURES:
- Power Rib system grips the rope for greater safety
- At 500kg the grip will start to creep preventing overload
- Designed for use with 11mm kernmantel rope
- Weight: 5.45kg

REF.
10 070 29

SINGLE SWIVEL CHEEK PULLEY

▲ BENEFITS:
- Highly efficient single or dual-attachment swing sided pulley for pulley systems and hauling
- Oil-lite bearings with smooth free-running performance under heavy loads

▶ FEATURES:
- Aluminium construction
- Suitable for ropes up to 12.7mm diameter
- Tensile strength 3,000kg
- Lightweight alloy: 0.12kg

REF.
Single attachment **10 070 38**
Dual attachment **10 102 24**

TWIN ALLOY RESCUE PULLEY

▲ BENEFITS: High efficiency dual attachment pulley
- Double swivel
- Oil-lite bearings with free-running performance under heavy loads

▶ FEATURES:
- Dual attachment double swivel cheek pulley for pulley systems and hauling
- Suitable for ropes up to 12.7mm
- Tensile strength 3,000kg
- Lightweight alloy: 0.28kg

REF.
10 070 40

TELESCOPIC REACH POLE

▲ BENEFITS:
- Used to remotely attach the rescue line to the fallen climbers harness

▶ FEATURES:
- Karabiner is held in an opened position
- Fiberglass telescoping pole which collapses to 0.8m
- Length 3.6m

REF.
10 178 24

RESCUE ROPE GRAB

▲BENEFITS:
- Attaches to the 'live' rope end and connects to lanyards or ropes to lift the fallen worker

▶FEATURES:
- Suitable for 10/12mm ropes

REF.
10 288 07

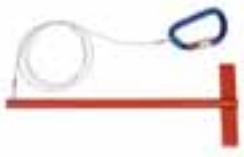
❱ Conforms to EN353-2

EDGE PROTECTION

▲ BENEFITS:
- Prevents the rope being cut against a sharp edge when lifting or lowering a person

▶ FEATURES:
- Stainless steel

REF.
10 288 08



T-BAR

USED SPECIFICALLY TO RAISE THE ROPE AWAY FROM THE EDGE

REF.
10 288 09

EMERGENCY RESCUE SLING

▲ BENEFITS:
- Used by many leading rescue services around the world
- Enhances comfort for the casualty

▶ FEATURES:
- Comfortable and easy-to-use rescue sling is based on a helicopter sling
- Chest strap can be undone and fitted around the casualty while remaining attached to rescue system
- Adjustable leg straps allow any angle of casualty lift
- 9mm cell foam padding on the chest strap
- 2 additional attachment rings regulate the size for smaller casualties
- Weight: 1.9kg

REF.
10 070 63

❱ Conforms to EN1498

EVAC BODY SPLINT

▲ BENEFITS: Lightweight body splint ideal for confined space evacuation
- Once wrapped around a casualty, it provides a rigid splint
- Can be used vertically and horizontally

▶ FEATURES:
- Polypropylene stretcher bed
- Fitted with foot supports
- Can be stored in a compact bag and is easy to transport
- Padded shoulder straps provide extra support and protection for the casualty

REF.
10 070 46

RESCUE TRIANGLE

▲ BENEFITS: Rescue triangle is fully adjustable for adults and children

▶ FEATURES:
- Compact and lightweight
- Suitable for short-duration rescue and evacuation operations of an uninjured casualty
- Designed to hold the casualty in a sitting position for comfort
- Weight: 1.164kg

REF.
10 048 76

❱ Conforms to EN1498B

Confined Space

TRIPOD

▲ BENEFITS: Easily installed by one person

▶ FEATURES: Self-locking and adjustable

- Aluminium tripod
- Fully adjustable legs lock securely in place thanks to the automatic pins
- Two anchorage points
- Supplied with one pulley
- Weight: 15kg
- Dimensions: Fully extended: height: 2.1m/leg span: 1.5m
- Fully retracted dimension: height: 1.4m – width: 0.4m
- Breaking strength: > 10 KN
- Maximum safe working load: 136kg

REF.	HEIGHT
10 050 41	2.1m

❱ Conforms to EN795 (b)

MN20 MANHANDLER® WORK WINCH

▲ BENEFITS:

- Compact and robust
- Both a rescue and material winch
- Manhandler® is easy to operate

▶ FEATURES:

- Brake holding – friction disk
- Housing in steel, yellow chromate plating
- Mechanical efficiency 5:1
- Overspeed braking system and load indicator
- Integrated bracket for tripod
- Swivel snap hook
- Maximum charge: 150kg

REF.	LENGTH
Lifeline material: galvanised steel cable	
10 050 42	20m
10 163 20	30m
Lifeline material: stainless steel cable	
10 050 44	20m

❱ Conforms to EN1496

MIGHTEVAC® RESCUE/RETRIEVAL HOIST

COMBINES THE SUPERIOR PERFORMANCE AND RELIABILITY FOR EMERGENCY EVACUATION

15M TO 40M – CABLE SELF-RETRACTING LIFELINE WITH EMERGENCY RETRIEVAL WINCH

▲ BENEFITS: Heavy duty performance

- Easy-to-use
- No annual factory re-certification required* – lowers cost of ownership and increases productivity
- Used in conjunction with the Miller Tripod and dedicated brackets to form the core of a stable and secure confined entry/rescue system

▶ FEATURES:

- 4.8mm galvanised or stainless steel cable
- Quick-activating retrieval winch mechanism
- Pressed steel housing and compact design
- Rescue winch (up/down), gear ratio 5:1
- Corrosion-resistant stainless steel/ aluminum components
- Convenient, heavy-duty carrying handle
- Integral fall indicator
- For emergency evacuation only
- Supplied without brackets

REF.	LENGTH
Lifeline material: Galvanised steel	
10 051 49	15m
10 051 60	30m
10 051 61	40m
Lifeline material: Stainless steel	
10 143 90	15m
10 143 70	30m
Brackets for MightEvac®	
10 053 30	15m
10 053 31	30 & 40m

❱ Conforms to EN360

A C

MILLER PULLEY*

▲ **BENEFITS: Flat and swing sided with large diameter roller that promotes excellent efficiency**

▶ **FEATURES:**
- Stainless steel pulley

REF.
10 114 71

A C

POTEX

PORTABLE PIVOTING
DAVIT COLUMN

▲ **BENEFITS: Easy access to confined spaces**
- Mounting plates: Portable davit arm is available with a wide selection of base mountings – to suit temporary/ semi-permanent mobile working environments

▶ **MATERIAL: Pivoting uni-hoist system**
- Integrated rescue winch 30m
- Adjustable legs to fit most confined space entry

REF.
10 029 20

◗ Conforms to EN795(b)

*INCLUDED WITH MN10 TRIPOD AND MANHANDLER®.

Fall arrest kits

Miller® makes it easy! Miller Kits are produced specifically to provide industries with an immediate selection of fall protection equipment to suit their requirements. All kits are conveniently packed in backpacks, storage boxes or carrying cases.

A B

ROOFING KIT

▲ **BENEFITS: Useful on sloping roofs where retractable lifelines may react too slowly**
- Durable, corrosion-resistant

▶ **FEATURES: All your fall protection equipment available in a ready-to-go kit**
- 2 point DuraFlex® MA08 harness with rear and front anchorage D-rings
- 12mm rope lifeline, length 15m
- Automatic rope grab, 12mm, with 0.3m lanyard and hook
- Includes free plastic storage box

REF.
10 029 09

A B C

LOW LEVEL KIT

▲ **BENEFITS: Quick activating braking system stops a fall within centimetres**

▶ **FEATURES:**
- 1 point DuraFlex® MA02 harness, rear anchorage
- 2.5m Self retractable webbing lifeline MI20 with shock absorber
- Webbing sling, length 0.6m
- Includes free plastic carry case

REF.
10 029 10

B C

MINILITE™ KIT

▲ **BENEFITS: Quick activating braking system stops a fall within centimetres**

▶ **FEATURES:**
- 3m self retracting webbing lifeline Minilite with scaffold hook
- 1 point DuraFlex® MA02 harness
- Includes free plastic carry case

REF.
10 061 03

B C

CONSTRUCTION BACK-PACK KIT

▲ **BENEFITS: Adapted lanyard for scaffolding**
- Two premium products in a backpack

▶ **FEATURES:**
- 1 or 2 point DuraFlex® harness
- 2m elasticated Manyard® with 65mm steel scaffold hook
- Includes free back-pack

REF.	HARNESS
10 068 83	**1 point — MA02**
10 078 42	**2 point — MA04**

B C

SCORPION™ BACK-PACK KIT

▲ **BENEFITS: Ideal for low level work**
- Quick activating braking system stops a fall within centimetres

▶ **FEATURES:**
- 1 or 2 point DuraFlex® harness
- Scorpion™ self retracting webbing lifeline with swivel scaffold hook and snap hook

REF.	HARNESS
10 086 94	**1 point — MA02**
10 086 95	**2 point — MA04**

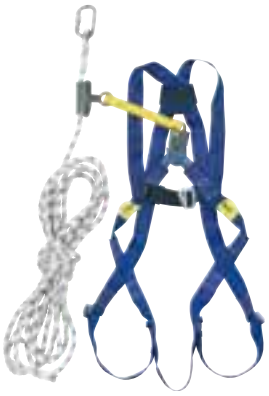
B C

TURBOLITE™ KIT

▲ **BENEFITS: Self retracting lifeline kit approved in fall factor 2**
- Ideal for low space clearance

▶ **FEATURES:**
- 1 point DuraFlex® MA02 harness
- TurboLite self retracting webbing lifeline with steel twistlock + aluminium scaff hook

REF.
10 281 34



B C

TITAN™ ROOFERS KIT

▲ **BENEFITS: Suitable for use on sloping roofs where retractable lifelines may react too slowly**

▶ **FEATURES:**

- TITAN™ 2 point harness with rear and front anchorage (front webbing loops)
- Automatic rope grab with 10m-anchorage line and 30cm attachment lanyard

REF.
10 118 95

B C

TITAN™ FALL ARREST KIT

▲ **BENEFITS: Cost effective kit for fall protection**

▶ **FEATURES:**

- TITAN™ 1 point harness with rear anchorage
- 2m shock-absorbing lanyard with 2 screwgate karabiners

REF.
10 118 96

B C

TITAN™ RESTRAINT KIT

▲ **BENEFITS: The ideal restraint solution**

▶ **FEATURES:**

- TITAN™ 1 point harness with rear anchorage
- 2m restraint lanyard with 2 screwgate karabiners

REF.
10 118 97

B C

TITAN™ CONSTRUCTION KIT

▲ **BENEFITS: Lightweight fall protection kit**

- Quick activating braking system stops a fall within centimetres

▶ **FEATURES:**

- TITAN™ 1 point harness with rear anchorage
- TITAN™ CMS 2.5m self retracting webbing lifeline with 2 screwgate karabiners

REF.
10 118 98

B C

TITAN™ WORK POSITIONING KIT

▲ **BENEFITS: Allow hands free position**

▶ **FEATURES:**

- 2 point TITAN™ harness with work positioning belt, front and rear anchorage (front webbing loops)
- TITAN™ CMS 2.5m self retracting webbing lifeline with 2 screwgate karabiners
- Adjustable work positioning lanyard with 2 screwgate karabiners

REF.
10 118 99

A C

CASUALTY PULLEY SYSTEM

▲ **BENEFITS: Easy to install for quick and safe rescue**

- Lightweight system enables the rescuer to clip the casualty to his own line and lift them to transfer either onto his system or onto a stretcher

▶ **FEATURES:**

- Pulleys, ascender and karabiners fit into a strong carrying bag
- Maximum length: 2m
- Weight: 1.2kg

REF.
10 070 42

A C

INDY SELF RESCUE KITS

▲ **BENEFITS: Suitable for use by one-person only**

- Ready-to-use evacuation kit

▶ **FEATURES:**

- INDY descender – maximum descent speed 2m/s.
- 20m rope with karabiner
- Anchorage sling
- Convenient, waterproof storage bag

REF.
10 060 26

❱ Conforms to EN341

Accessories

TOOL BANDIT™

▲ **BENEFITS: Prevent tools from dropping that can cause serious injuries on the worksite**

- Can be fixed to the worker's belt or wrist
- Designed to secure the tool whilst still allowing freedom of movement

▶ **FEATURES:**

- Lanyard with karabiner and wrist fixing system
- Maximum load: 2.5kg

REF.

Display box with 12 Bandit™ Lanyard Tool holders

11 002 10

10 145 91 **One each**

Bulk bag of 36 Wrist Bandit™ tool holders

10 124 91

MILLER RELIEF™ STEP

▲ **BENEFITS: Alleviate the effects of suspension trauma**

- The Relief™ Step can be attached to any brand of harness
- Easily deployed for a short term solution to the worker's safety and comfort

▶ **FEATURES:**

- Easy to deploy webbing

REF.

Display box of 12 pairs

11 002 11

COWSTAIL SLING

▲ **BENEFITS: Reliable connecting device with reinforced loops at end**

- Lightweight

▶ **FEATURES: Dyneema 15mm**

- Used to attach a variety of ancillary devices
- Sling with reinforced loops at each end
- Suitable for connecting different devices within an access or rescue system

REF.	LENGTH
10 070 59	**30cm**
10 070 58	**60cm**

EDGE ROLLER

▲ **BENEFITS: Designed to protect the rope when used on abrasive edges**

▶ **FEATURES:**

- Highly durable stainless steel shaft and brass bearings
- 50mm wide roller allows the simultaneous use of 3 ropes

REF.

10 070 43

CLIMBERS HELMET

▲ **BENEFITS: Protects from impacts from above and side**

▶ **FEATURES:**

- Polypropylene climbers helmet with fully adjustable cotton lining and good air circulation reduces the build up of moisture
- Comfortable skull webbing and chin strap
- Fitted with attachment point for head torch
- Weight: 400g

REF.	COLOUR
10 309 40	**White**

❱ Conforms to EN397

CLIMBERS HELMET

▲ **BENEFITS: Protects from impacts from above and side**

▶ **FEATURES:**

- Polypropylene climbers helmet with fully adjustable cotton lining and good air circulation reduces the build up of moisture
- Comfortable skull webbing and chin strap
- Fitted with attachment point for head torch
- Weight: 410g

REF.	COLOUR
10 070 48	**Red**

❱ Conforms to EN397

ROPE PROTECTOR

▲ **BENEFITS: Designed to protect the rope against abrasion and cutting eg. on buildings or construction site**

▶ **FEATURES:**
- PVC reinforced rope protector
- Easy-to-fit with velcro seam

REF.
10 102 14

INDUSTRIAL CLIMBERS SEAT

▲ **BENEFITS: Seat offers a comfortable supported position for the operator**
- Use in conjunction with a suitable safety harness

▶ **FEATURES:**
- Padded seat with waterproof, abrasion-resistant PVC coated nylon covering
- Supplied with two connectors
- Adjustable straps for perfect fit
- Complete with convenient attachment points for accessories

REF.
10 070 56

KIT BLOCK

▲ **BENEFITS: Secures foot of a ladder to prevent slipping**
- Avoid all risks of fall over or slipping
- Fix safely the ladder

▶ **FEATURES**
- Kit including 2 fixing blocks and a 8m rope

REF.
10 029 97

PLASTIC BOX

▶ **FEATURES: Plastic storage box**
Dimensions: 800x400x300mm

REF.
10 044 71

PERSONAL PROTECTIVE EQUIPMENT BAG

▲ **BENEFITS: Multi pockets**

▶ **FEATURES:**
- 3 outside pockets
- 2 large carrying handles and 1 shoulder strap
- Dimensions: 500 x 330 x 250mm
- Weight: 0.938kg

REF.
10 044 54

BACK PACK

▲ **BENEFITS: Large capacity**

▶ **FEATURES:**
- Heavy duty blue PVC rucksack
- Shoulder straps
- Quick connect buckles

REF.	CAPACITY
10 044 43	**30l (h: 410mm)**
10 044 44	**60l (h: 650mm)**

SPORT BAG

▲ **BENEFITS: Ideal to transport your equipment**

▶ **FEATURES:**
- Polyester with central zip fastener
- 2 large carrying handles and shoulder strap
- Dimensions: 590x270x270mm
- Weight: 0.740kg

REF.
10 028 65

Miller Revolution™ accessories

MILLER REVOLUTION™ ACCESSORIES
The PivotLink™ Connection provides an attachment point for a multitude of accessories and individual tool pouches with an innovative design that accommodates:

- Tools, mobile phones, water bottles and more
- Accessories are easily attached and detached – distributing weight across the hips and shoulders for a more comfortable fit and greater mobility
- Universal attachment clips fit on your existing accessories or tool rig and easily attach/detach

LARGE OPEN BOLT & BULL PIN BAG
REF. 10 142 73

MEDIUM OPEN BOLT & BULL PIN BAG
REF. 10 142 74

1. Accessories have a female clip that attaches and locks over the male connection point
2. Once attached, the accessory pivots to maintain a level position
3. Easily remove and /or change accessories for convenience by simply lifting from connection point.

MINI CELL PHONE HOLDER + CONNECTOR
REF. 10 142 70

REGULAR CELL PHONE HOLDER + CONNECTOR
REF. 10 142 71

REVO 2 POCKET NAIL AND TOOL POUCH
REF. 10 142 75

WATER BOTTLE HOLDER*
REF. 10 142 72

*BOTTLE NOT INCLUDED

BLUE SELF ADHESIVE LABELS X 10
REF. **10 142 78**

YELLOW SELF ADHESIVE LABELS X 10
REF. **10 142 79**

RED SELF ADHESIVE LABELS X 10
REF. **10 142 80**

GREEN SELF ADHESIVE LABELS X 10
REF. **10 142 81**

PADDED HAMMER LOOP
REF. **10 160 80**

LARGE TOOL BAG WITH HAMMER LOOPS
REF. **10 150 50**

SHOULDER / LEG PADS
REF. **10 142 76**

SNAP TOGETHER CLIP FOR MINIPHONE HOLDER
REF. **10 156 15**

ZIPPED CYLINDRICAL UTILITY POUCH
REF. **10 155 10**

MILLER Services

MILLER TECHNICAL SERVICE/ TECHNISERV

Miller Technical Service provides personal one-on-one assistance for your safety at height questions. Staffed with experienced professionals, they are ready to immediately respond to your telephone call with the answers you need to safely operate your business.

▶ Our technical expertise is at your service for any questions regarding:

- Recommendations on products linked to a specific application or sector
- Any technical request on our Miller product specification
- After sales management – inspection & return
- Specific product requests
- Product certifications & standards
- Requests on instruction sheets – technical sheets

▶ TECHNISERV Northern Europe
Tel.: +49 (0) 23 01-96 29 219
and/or +49 (0) 23 01-96 29 220
Mail: techniservnorth.hsp@honeywell.com

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MILLER FALL PROTECTION TRAINING

▶ Legislation Requirement
Training is an essential part of any safety program. The employer is responsible for ensuring that any person working at height is fully informed regarding the correct use of PPE and systems.

▶ Fundamental Fall Prevention/ Protection Training
The legislation states that a fall arrest system must be used when working at a height where a fall hazard exists. This system consists of:

- Anchorage point/anchorage connector
- Body wear – full body harness
- Intermediate attachment.

▶ Total Training Solutions
Miller Training Programs are considered to be a central part of their global fall protection offer, and provide awareness, knowledge and the skills necessary to ensure safety on the worksite to suit all areas of industry and the emergency services. Taught by field-experienced, professional instructors, the training sessions include live demonstrations and hands-on training, while addressing site-specific variables and performance requirements of fall prevention and protection.

In addition, Miller Training offers a comprehensive list of height safety courses conducted at a customer's facility or at the Miller Innovative Technology & Training Centres:

- Construction: Steel Erectors, Scaffolding and Roofing
- Telecommunications
- Electricity
- Wind Energy: simulator
- Oil & Gas
- Rope Access
- Confined Space
- Cleaning
- Ski Lifts
- Maintenance
- Rescue and Evacuation

For further information on our range of Industrial Fall Protection training courses, please contact your local Honeywell Sales office or Fall Protection Representative to customise your personalised training courses.

MILLER SERVICE CENTRES:

- inspection
- repair
- maintenance

Miller® offers to the users of its products a service to inspect, repair and maintain devices locally, quickly. Miller service points are trained then certified by technicians, store necessary spare parts for a repair and maintenance of Miller equipment according to maintenance guide.

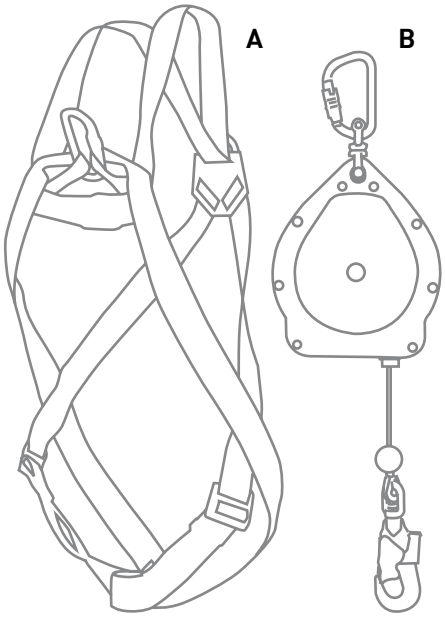
Contact your closest centre for an answer adapted to your request.

- life cycle of fall protection equipment

Please consult for detailed information the dedicated product user manual.

A. For our products made up mainly of textiles (harnesses, lanyards, SRL with webbing[3])
The maximum life cycle has been set at ten years from the date of production. This, without environmental factors[1] and particular cases of use[2] of the fall protection equipment. An annual inspection done by a competent person (trained for PPE inspections) is mandatory.

B. For our products made up mainly of metal (Cable SRL, karabiners)
We do not indicate a life cycle; the latter can be unlimited, as the product undergoes regular maintenance (at least once a year). In case of doubt or damage, the device has to be sent for expert inspection/repair to a local Miller Service Point or the Factory. For products not subject to maintenance (non workable), the life cycle is a maximum of ten years[1, 2].



C. Helmets
The maximum life cycle has been set at five years from the manufacturing date

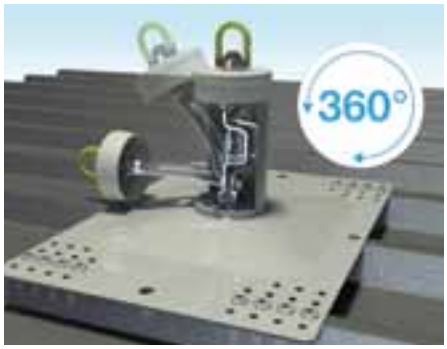
[1] **Environmental factors:**
contact with chemicals, improper storage, exposure to strong sources of heat > 50°C, ultraviolet rays, abrasion, etc.

[2] **Particular cases of use:** deterioration of the product, arresting falls, mechanical deformation, when accidental dropping, early wear, intensity of use and poor conditions of use. In all cases, our products must be verified annually.

[3] **Except for Miller Falcon 6m webbing :**
Replacement of the webbing kit every 5 years from manufacturing date. Annual expert inspection by a Miller Service Point or the Factory is required.

Permanent Fall

Söll Fusion® roof anchor post



Söll Fusion® single anchorage point absorbs energy and keeps forces close to the roof surface. The single anchorage point is tested for connecting up to 2 people while maintaining loads on the structure below 10kN.

360° protection : In the event of a fall, the Söll Fusion® Roof Anchor Post bends in the direction of the force, the built-in, energy-absorbing component activates and the base remains securely attached to the roof surface.

Söll Fusion® Roof Anchor Post conforms to EN795 Class A.

Söll ShockFusion® horizontal lifeline system

Designed for light weight industrial and commercial roof applications.

The Söll ShockFusion® horizontal lifeline (HLL) system reduces fall distance (minimised line deflection) while effectively managing system forces to maintain a safe connection to a variety of roof structures. The unique surface-mounted design eliminates the need to penetrate the roof structure, making installation quick and easy while reducing labour costs.

- **Unique engineered Söll Shock Fusion® design :**
  - Successfully tested for spans up to 20 m
  - Designed for up to 6 users (with max. 4 users within the same span)
  - Guarantees loads on the roofing structure ‹ 10 kN
- **Increased mobility and safety for working at height :**
  - End and corner posts effectively manage system forces without tipping over through a built-in energy absorbing component
  - Resulting in minimized line deflection (reduced possible fall distance)
    - Allows installation at a nearer proximity to the roof edge
    - Easier rescue provided in case of a fall
- **Durable design for long-lasting, reliable installation**
- **Time-efficient and cost-effective installation**
- **Maintains a safe connection to a variety of roof structures : membrane, standing seam, trapezoidal metal sheeting, concrete**

Söll ShockFusion® HLL system conforms to EN795 Class C.

Arrest Systems

Söll Xenon® horizontal lifeline system

Best value lifeline

Safe protection against falls
The Söll Xenon Horizontal Lifeline is an anchorage device incorporating a flexible wire rope. The principal components of the system are: shuttles, shock absorbers, intermediate anchors and end anchors.

A range of versatile and high-quality stainless steel components makes installation and inspection of systems simple and cost-effective.

The Söll Xenon horizontal lifeline systems conforms to EN795 Class C.

Overhead applications
Common areas of application include; vehicle bays, crane tracks, warehouses and aircraft hangars.

How can you provide protection against falls with maximum freedom of movement?
The Söll Xenon horizontal lifeline can be fixed above the user's work location. The shuttle will move along the cable above the worker, minimising any pendulum swing during a fall.
A rope and grab system or automatic retractable fall arrester can be attached to the shuttle to provide a safe range of both vertical and horizontal movement.

Combine horizontal and vertical systems!
Where the system has large spans or a heavy retractable fall arrester is used for very high systems, then the overhead shuttle can be used. The overhead shuttle has wheels that run on the cable and (when combined with the overhead intermediate bracket) allows smooth continuous passage along the full length of the cable.

Installation for walls and masonry
The Söll Xenon fall protection system can be installed on most walls or facades using appropriate structural fixings. The versatile range of end anchors, corners and intermediate brackets always allow for an appropriate bespoke system layout. Using shock absorbers with Structure-Guard-Technology, loads are minimised allowing the Söll Xenon system to be installed on to weak substrates, such as aluminium profiles or masonry.

Installation on roofs
Söll Xenon can be configured as either a fall restraint system or a fall arrest system. When using a fall restraint system, the user is restrained and can work only in the zones where there is no risk of falling. A fall arrest system does not prevent a fall, but arrests the fall in a controlled manner. Selecting the appropriate roof posts enables simple and cost-effective installation on different types of roofs.

Söll GlideLoc® safe climbing system

Söll GlideLoc® Safe Climbing System, permanently installed on buildings, towers, masts, etc... comprises a guided type fall arrester, vertical and horizontal guide rails or fall protection ladders, and a wide range of mounting brackets and accessories that adapt the system to most structural profiles.

Enhanced Safety
In contrast to temporary rope systems, Söll guide rails withstand constant wear and tear and allow a combination of vertical and horizontal access without having to disconnect.

Versatility
Available in both straight and curved form in a variety of materials to suit the work environment. Guide rails can be retrofitted to existing ladders.

User Comfort and Ergonomics
The fall arrester glides smoothly along the rail without any manual guidance, reducing user fatigue. This is the only system that allows the user to lean forward or backwards.

Economic
Designed to withstand the toughest environmental conditions, Söll fixed systems offer a long-term economical investment with minimal maintenance.

Söll GlideLoc® systems are available as ladders as well as guide rails.
Fall protection ladders have an integrated guide rail for the guided-type fall arrester in the centre. They are available in aluminium, galvanized steel and stainless steel, either with or without side stringers:

Anodized Aluminium:
For high corrosion and distortion resistance, good appearance and ergonomic support.

Hot dipped galvanised steel:
The cost effective solution for general applications.

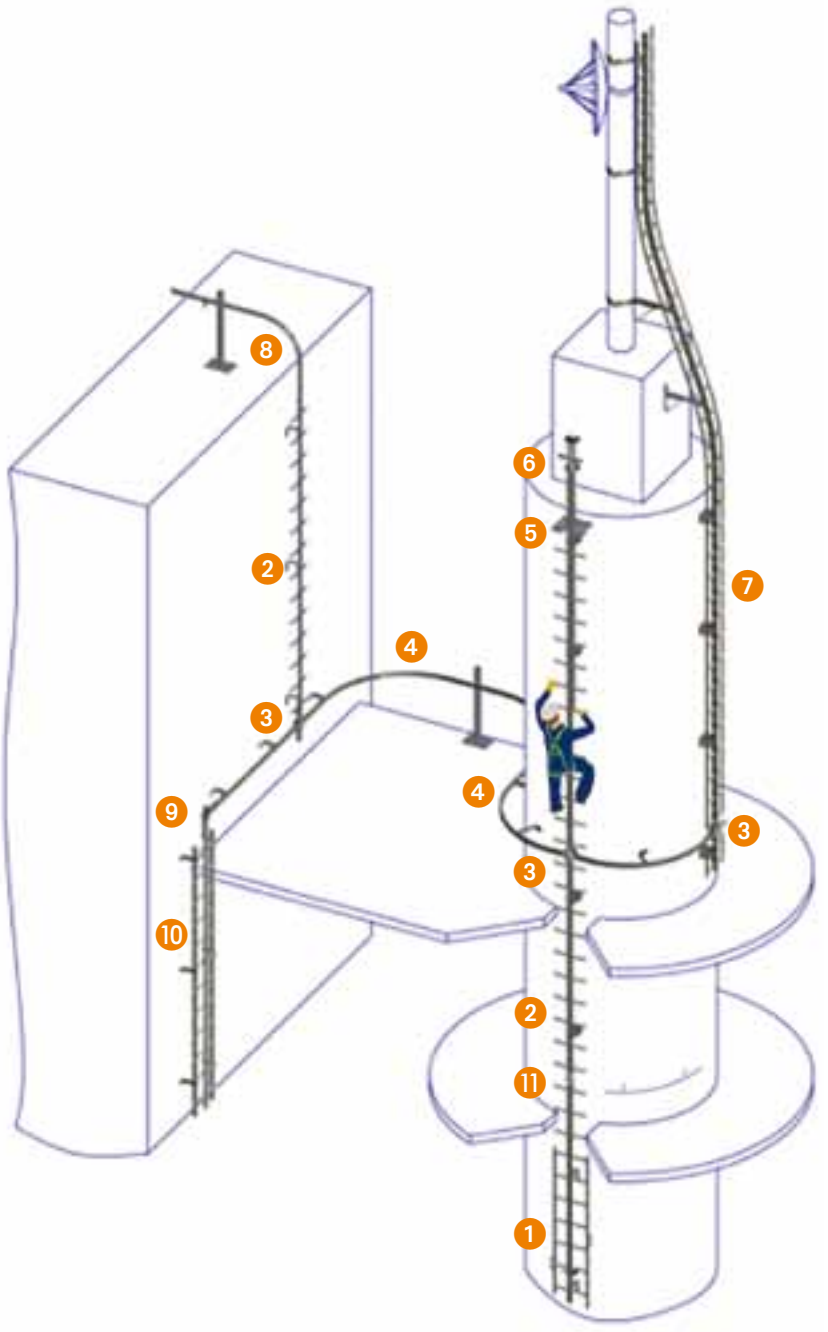
Stainless steel:
Suitable for harsh environments such as chemical plants, food industry, off-shore and industrial chimneys and shafts.

COMFORT
The triple action karabiner is self locking and made from light-weight aluminium. It ensures extremely short arrest distances and low arrest forces.

UNIVERSAL II
can be inserted into or detached from the rail at any location. The body and the opening mechanism of the patented fall arrester are made from stainless steel.

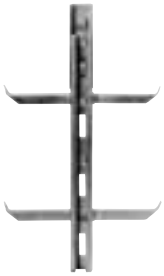
COMFORT²
Made entirely of **stainless steel.** The functional design of COMFORT² is identical to the aluminium shuttle and offers additional advantages since it is designed for severest stress, is extremely durable and easy to clean.

COMFORT UK
This triple action karabiner is self-locking and has strap webbing for rescue actions which require the cutting free of the injured person.



❶ Söll PivotLoc
The foldable ladder system prevents unauthorised persons from climbing the ascent route and is visually much less obtrusive than a ladder. (see page 106).

❷ Y-Spar
Cost-effective alternative. The low surface area keeps wind loads applied to the sub-structure to a minimum.



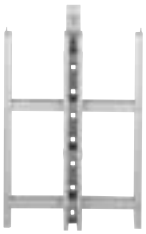
❸ Turntable
Allows safe continuous transfer from ladders to horizontal rail and vice versa without disconnecting.

❹ Horizontal guide rail
Available both straight and curved, which allows safe access along narrow platforms.

❺ Folding footrests
Must be provided as rest platforms at regular distances in case of high ascent routes for added safety.

❻ Rotary exit section
Climbers can safely access the platform behind the guide rail.

❼ Twin ladder
The operator can glide his hands along the side stringers when ascending without having to hold onto the rungs. Ideal for dirty surroundings. Offers high distortion resistance.



❽ Twisted change-over rail
Allows a climber to move safely onto a roof or a platform away from the edge of the roof before disconnecting from the system.

❾ Ho-ver turn table
Simple means of changing direction from the end of a vertical rail to a horizontal rail and vice versa.

❿ Vertical guide rail
Can be assembled on existing ladders, step irons etc. An ascent route protected in this way offers the same protection as Söll safe climbing systems.

⓫ Exit section
A climber can detach the fall arrester from the rail after ascending and insert it into the rail before descending.

Söll PivotLoc ladder

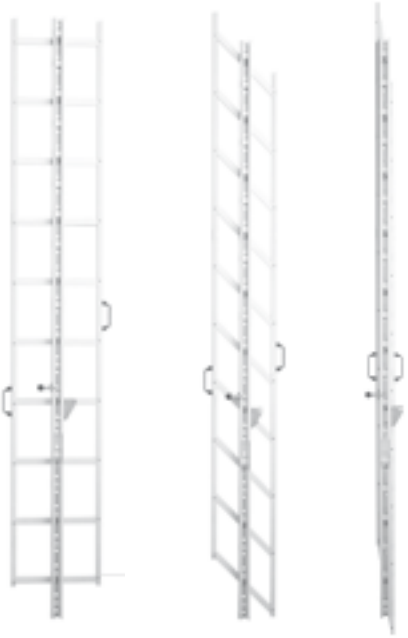
The foldable ladder system
Söll PivotLoc is a foldable ladder system with incorporated GlideLoc fall protection rail. In the closed position, the rungs pivot together behind the central guide rail.

Access Prevention
The Söll PivotLoc aluminium ladder system is a cost effective, innovative alternative to the cover plate. Through its unique and award winning design the Söll PivotLoc can be closed when not in use thus preventing unauthorised access. The Söll PivotLoc can be locked while working in the open state, so as to prevent an operator from being trapped accidentally.

Discreet
Once the side rails have been folded together, the ladder is very discreet (105 mm wide in the closed position) thus meeting architectural and planning requirements for an "invisible" height access system.

Versatile
Söll PivotLoc can be used in conjunction with all other Söll ladder systems. Side members are light and easy to move since their weight is counterbalanced. The side rails offer additional support to the user when climbing and descending.

Robust
Manufactured from saline-resistant anodised aluminium. The system attracts minimal wind and snow loads when closed.



Söll Vi-Go – vertical steel cable fall protection system

Söll Vi-Go is a fall protection system that can be retrofitted onto existing climbing devices such as ladders or rungs used in wind turbine, power supply, telecommunication or other industry.
It is basically made up of a steel rope or cable (three different types), fastening elements and a guided-type fall arrester.

Safety for all users
The system can support up to 8 workers. The corrosion - resistant, stainless steel shuttle requires minimum maintenance.

Söll MultiRail - Horizontal rail-based anchorage device

Horizontal anchorage devices: Where is the difference?

Installation along the entire fall risk zone
Compared to anchorage points which only offer the user a limited freedom of activity dependent on the length of the lanyard, Söll MultiRail rail systems can be installed along the entire work area and allow continuous connection and greater protection.

Can also be used as a handrail
Compared to cable systems and anchorage points, horizontal guide rails offer the advantage that they can be also installed as handrails.

Energy distribution via multiple intermediate brackets
In case of a fall, the forces are absorbed by several intermediate brackets and not just by both of the end-fixings, as is the case with cable systems, or by a single point, as it is the case with anchorage points. The rail can absorb retention forces of up to 100 kg (220 lbs.) without permanent deformation. The rail is not fixed in the intermediate brackets, enabling thermal expansions to be accomodated.

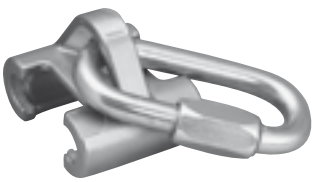
Greater fixing spans
Söll MultiRail offers the advantage of greater fixing spans up to 4 m (13 ft.) and can be used by more people at the same time (up to 6).

The openable glider can be attached to the rail at any point. It can be opened and closed by turning the knurled-knob.

Innovative and versatile
The Söll MultiRail horizontal anchorage device is often used in the following sectors: Store-fronts, Flat roofs or steep roofs, Working platforms on masts and buildings, Hangars, Shipyards, Cranes, Industrial plants etc.

With the Söll MultiRail system, vertical sections of up to 1 m (40 in.) are allowed.

Openable shuttle
Can be detached and re-attached at any point along the rail



Closed shuttle
Robust, easy to use and low cost, operates with a gliding action.

Wheeled shuttle
For overhead applications, particularly effective where heavy retractable fall arresters are used.

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1005042	92	MN20 Manhandler® work winch 20m – galvanised cable
1005044	92	MN20 Manhandler® work winch 20m – stainless steel cable
1005131	71	Forked lanyard 1.5m – 1/4 Turn and 2xGO60
1005137	49	DuraFlex® MA60 – 2 points + positiong belt
1005149	59	MightyEvac 15m – Galvanised cable
1005160	59	MightyEvac 30m – Galvanised cable
1005161	59	MightyEvac 40m – Galvanised cable
1005278	69	Lanyard ME54 2m – with CS20 and 55 mm scaff hook
1005290	69	Lanyard ME53 1.5m – with CS20 and 22mm snap hook
1005317	74	Manyard® ME82 1.5m – two CS20
1005318	74	Manyard® ME82 2m – two CS20
1005324	74	Manyard® ME86 1.5m – CS20 and 65mm scaff hook
1005325	74	Manyard® ME86 2m – CS20 and 65mm scaff hook
1005326	74	Manyard® ME83 – 1.5m – CS20 and snap hook
1005327	74	Manyard® ME83 2m – CS20 and snap hook
1006026	95	INDY rescue kit
1006077	48	Elastolight
1006100	63	Minilite 3m – with swivel snap hook (22mm) and ML00
1006101	63	Minilite 3m – with swivel scaffold hook (50mm) and snap hook (22mm)
1006102	63	Minilite 3m – with snap hook (22mm) and ML00
1006103	94	Druraflex Minilite kit
1006319	54	520 work positioning belt
1006321	54	522 work positioning belt
1006629	84	Telescopic pole 6m
1006882	44	Black Vest DuraFlex® – 2 points
1006883	94	DuraFlex® construction back pack kit – DuraFlex® MA02 harness 1 point
1007013	71	Forked lanyard 1.5m – 3 captive eye karabiners
1007015	71	Forked lanyard 1.5m – without karabiner
1007022	51	IBX2R
1007025	51	RAM sit Harness
1007027	90	QuadPod
1007029	90	Self tailing winch
1007031	78	Rocker rope lock
1007038	90	Single swivel cheek pulley
1007040	90	Twin alloy rescue pulleu
1007041	86	Rope ascender right hand
1007042	95	Casualty pulley system
1007043	96	Edge roller
1007046	91	Evac body splint
1007048	97	Climber helmet red
1007056	97	Industrial climber seat
1007057	87	ProAllp Tech descender
1007058	96	Cowstail sling 60cm
1007059	96	Cowstail sling 30cm
1007060	96	Cowstail sling 45cm
1007063	91	Emergency rescue sling
1007066	84	Beam glide
1007393	86	Rope ascender left hand
1007610	84	Serpent temporary lifeline
1007611	42	DuraFlex® MA04 – 2 points, automcatic buckles
1007613	79	Anchorage line 10m – Kernmantel rope, diam. 10.5mm with counterweight and screwgate karabiner
1007614	79	Anchorage line 20m – Kernmantel rope, diam. 10.5mm with counterweight and screwgate karabiner
1007615	79	Anchorage line 30m – Kernmantel rope, diam. 10.5mm with counterweight and screwgate karabiner
1007616	79	Anchorage line 40m – Kernmantel rope, diam. 10.5mm with counterweight and screwgate karabiner
1007617	79	Anchorage line 50m – Kernmantel rope, diam. 10.5mm with counterweight and screwgate karabiner
1007618	78	Stick Run for Ø 10/12 mm rope + lanyard and CS20 connector
1007640	78	Stick Run for Ø 10/12 mm rope
1007842	94	DuraFlex® construction back pack kit – DuraFlex® MA04 harness 2 points
1008232	54	TITAN™ work positioning belt
1008270	72	Restraint lanyard TITAN™ 1m – two thimbled loops
1008271	72	Restraint lanyard TITAN™ 1.5m – without karabiner
1008272	72	Restraint lanyard TITAN™ 2m – two thimbled loops
1008273	72	Restraint lanyard TITAN™ 1.8m – adjustable without karabiner
1008275	69	Lanyard TITAN™ B 1.8m – without karabiner
1008276	69	Lanyard TITAN™ B1 2m – with CS20 and snap hook
1008281	69	Lanyard TITAN™ C3 2m – CS20 and 65 mm scaff hook
1008285	73	Work positioning lanyard TITAN™ 1.80m – without karabiner
1008286	73	Work positioning lanyard TITAN™ adjustable 1.8 to 2m – slpiced loop and 22mm snap hook
1008287	73	Work positioning lanyard TITAN™ adjustable 1.8 to 2m – slpiced loop and twist lock
1008288	73	Work positioning lanyard TITAN™ adjustable 1.8 to 2m – two twist lock
1008342	80	Twist lock karabiner ZICRAL 2
1008330	62	Aviabloc
1008331	62	Aviabloc
1008332	62	Aviabloc
1008364	63	TITAN™ CMS 2.5m – 2 karabiners with housing
1008587	62	Scorpion™ 2.7m – with swivel snap hook and screwgate karabiner
1008588	62	Scorpion™ 2.8m – with swivel scaff hook (65mm) and snap hook
1008593	62	Scorpion™ 2.7m – with alloy scaff hook (65mm) and swivel snap hook for D-ring
1008594	62	Scorpion™ 2.8m – with alloy scaff hook (65mm) and swivel karabiner
1008671	74	Barracuda adjustable 1.20m – CS20 and vertical scaff hook clamp
1008694	94	DuraFlex® Scorpion™ back pack kit – DuraFlex® MA02 harness 1 point
1008695	94	DuraFlex® Scorpion™ back pack kit – DuraFlex® MA04 harness 2 points

REF.	P.	DESIGNATION
1008360	82	TITAN™ webbing anchorage sling 0.6m
1008361	82	TITAN™ webbing anchorage sling 0.8m
1008362	82	TITAN™ webbing anchorage sling 1m
1008363	82	TITAN™ webbing anchorage sling 1.2m
1008364	82	TITAN™ webbing anchorage sling 1.5m
1009249	81	Dual pawl karabiner GO55
1009258	81	Dual pawl karabiner GO85
1009276	80	Screw gate karabiner CS20 Aluminium
1010040	44	Hi Visibility Vest DuraFlex® – 2 points
1010141	74	Barracuda 1.75m rope – CS20 and vertical scaff hook clamp
1010168	86	Shorco sling and foot loop set
1010177	97	Climber helmet white
1010182	79	Anchorage line 200m – Kernmantel rope, diam. 11mm, white
1010185	79	Anchorage line 50m – Kernmantel rope, diam. 11mm, white
1010187	79	Anchorage line 100m – Kernmantel rope, diam. 11mm, black
1010190	89	Rescue bag size L
1010191	89	Rescue bag size M
1010206	71	Forked lanyard 1.5m – with 65 mm scaff hook
1010214	97	Rope protector
1010220	87	FIG 8 descender
1010221	78	Rocker black
1010222	87	PROALLP TECH descender black
1010224	90	Dual attachment swivel pulley
1010252	51	RAM sit Harness (black)
1010269	51	IBX2R (black)
1010470	74	Barracuda 1.75m Manyard® – CS20 and vertical scaff hook clamp
1010893	62	Aviabloc
1011190	78	TITAN™ rope grab with 10m rope
1011191	78	TITAN™ rope grab with 20m rope
1011192	78	TITAN™ rope grab with 30m rope
1011344	78	Anchorage line for TITAN™ rope grab 10m
1011345	78	Anchorage line for TITAN™ rope grab 20m
1011346	78	Anchorage line for TITAN™ rope grab 30m
1011471	93	Miller Pulley for Tripod
1011700	78	TITAN™ rope grab with 15m rope
1011723	79	Anchorage line 35m – Nylon rope, diam.12mm with 2 stitched splices
1011724	79	Anchorage line 45m – Nylon rope, diam.12mm with 2 stitched splices
1011726	79	Anchorage line 25m – Nylon rope, diam.12mm with 2 stitched splices
1011728	58	Falcon™ 6.2m – Galvanised cable
1011729	58	Falcon™ 6.2m – Stainless steel cable
1011742	58	Falcon™ 10m – Galvanised cable
1011743	58	Falcon™ 10m – Stainless steel cable
1011746	58	Falcon™ 15m – Galvanised cable
1011747	58	Falcon™ 15m – Stainless steel cable
1011750	58	Falcon™ 20m – Galvanised cable
1011751	58	Falcon™ 20m – Stainless steel cable
1011770	46	Tower
1011890	43	TITAN™ – 1 point
1011891	43	TITAN™ – 2 points
1011893	49	TITAN™ – 1 points + positioning belt
1011894	49	TITAN™ – 2 points + positioning belt
1011895	95	TITAN™ roofer kit
1011896	95	TITAN™ fall arrest kit
1011897	95	TITAN™ restraint kit
1011898	95	TITAN™ construction kit
1011899	95	TITAN™ work positioning kit
1012333	45	Kevlar harness
1012336	45	Kevlar harness + adjustable shoulder strap
1012392	59	Black Rhino with swivel scaffold hook (65mm) and swivel snap hook (22mm)
1012410	59	Black Rhino with swivel screwgate karabiner and swivel snap hook (22mm)
1012491	96	Tool Bandit™ 36 pieces
1013430	70	Lanyard TITAN™ A3 2m – CS20 and 65mm scaff hook
1013431	71	Forked lanyard TITAN™ 2m – 1/4 turn and two 65mm scaff hook
1013454	44	Hi Visibility Vest DuraFlex® – 2 points + positioning belt
1013491	74	Forked Manyard® 2m – CS20 and two 65mm scaff hook
1013970	74	Forked Manyard® 1.5m – CS20 and two 65mm scaff hook
1014236	42	Revolution™ R2 DuraFlex® webbing
1014239	42	Revolution™ R2 DualTech webbing
1014242	47	Revolution™ R3 – Dualtech webbing
1014251	47	Revolution™ R5 – DuraFlex® webbing
1014254	47	Revolution™ R5 – Dualtech webbing
1014330	70	Lanyard TITAN™ A2 1.5m – two CS20
1014370	59	MightyEvac 30m – Stainless steel cable
1014390	59	MightyEvac 15m – Stainless steel cable
1014432	50	Ropax – quick connect buckle
1014434	50	Ropax – manual buckle
1014630	44	Hi-Vis Vest Harness DuraFlex® - Orange - M/L
1014631	44	Hi-Vis Vest Harness DuraFlex® - Orangex - XL
1014807/OFFS	45	Revolution™ R7 OFFS
1014807/WIND	45	Revolution™ R7 WIND
1015074	44	ATEX antistatic
1015110	50	Ropax – Dualtech webbing
1015140	70	TITAN™ A3 1.75m – CS20 and 65mm scaff hook
1015859	71	ATEX Forked lanyard – two GO60
1016320	92	MN20 Manhandler® work winch 30m – galvanised cable
1016793	61	Falcon™ 6m – no carabiner
1016794	61	Falcon™ 6m – with scaffhook (65mm) and screw gate
1016795	61	Falcon™ 6m – with 2 screwgate carabiners
1016796	61	Falcon™ 6m – with screwgate carabiner and snap hook (22mm)
1016840	60	Scorpion Edge 2.7m – with screwgate karabiner and ssnap hook
1016841	60	Scorpion Edge 2.7m – with scaffold hook (65 mm) and srewgate karabiner
1016842	60	Scorpion Edge 2.7m – with scaffold hook (55 mm) and snap hook
1016847	75	Lanyard edge tested 2m – SnapHook and 65mm scaff hook
1016848	75	Lanyard edge tested 2m – two SC20
1016849	75	Lanyard edge tested 2m – CS20 and 65mm scaff hook
1016850	75	Forked edge tested 1.5m – CS20 and two 55mm scaff hook
1017824	89	Telescopic reach pole
1017900	61	Turbolite with scaffhook and snap hook (21mm)
1017916	75	Manyard® edge tested 2m – CS20 and 65 mm scaff hook

REF.	P.	DESIGNATION
1017918	75	Manyard® edge tested 2m – two CS20
1017921	58	Falcon™ ATEX
1018013	61	Turbolite with twistlock carabiner and scaffhook (65 mm)
1018014	61	Turbolite with scaffhook and twistlock carabiner
1018015	61	TurboLite with 2 twistlock carabiners
1018035	75	Forked Edge Tested 1.5m – SC20 and two 100mm scaff hook
1018521	75	Forked Edge Tested Manyard® 2m – Cs20 and two 55mm scaff hook
1018960	80	Screw gate karabiner CS20
1018961	80	Screw gate karabiner ML06
1018963	80	Twist lock karabiner CS20
1018968	80	Twist lock karabiner ZICRAL
1018969	80	Twist lock karabiner SUPER-TOP
1018971	81	Triple action karabiner FRELON
1018972	81	Dual pawl karabiner GO60
1018973	81	Dual pawl karabiner Snap hook
1018976	81	Dual pawl karabiner GO100
1018979	82	Cable girder grip MJ52 – 75mm
1018980	82	Cable girder grip MJ52 – 100mm
1018981	82	Cable girder grip MJ52 – 140mm
1028134	94	TurboLite kit
1028520	75	Forked Manyard® edge tested 1.5m – Cs20 and two 55mm scaff hook
1028521	75	Forked Manyard® edge tested 2m – Cs20 and two 55mm scaff hook
1028522	75	Forked Manyard® edge tested 2m – Cs20 and two 65mm scaff hook
1028523	75	Forked Manyard® edge tested 1.5m – Cs20 and two 65mm scaff hook
1028630	81	Triple action karabiner CIGALE
1028750	88	Miller SafEscape ELITE descending device without hoist 20 m rope
1028751	88	Miller SafEscape ELITE descending device without hoist 30 m rope
1028752	88	Miller SafEscape ELITE descending device without hoist 40 m rope
1028753	88	Miller SafEscape ELITE descending device without hoist 50 m rope
1028754	88	Miller SafEscape ELITE descending device without hoist 60 m rope
1028755	88	Miller SafEscape ELITE descending device without hoist 70 m rope
1028756	88	Miller SafEscape ELITE descending device without hoist 80 m rope
1028757	88	Miller SafEscape ELITE descending device without hoist 90 m rope
1028758	88	Miller SafEscape ELITE descending device without hoist 100 m rope
1028759	88	Miller SafEscape ELITE descending device without hoist 110 m rope
1028760	88	Miller SafEscape ELITE descending device without hoist 120 m rope
1028761	88	Miller SafEscape ELITE descending device without hoist 130 m rope
1028762	88	Miller SafEscape ELITE descending device without hoist 140 m rope
1028763	88	Miller SafEscape ELITE descending device without hoist 150 m rope
1028764	88	Miller SafEscape ELITE descending device without hoist 160 m rope
1028765	88	Miller SafEscape ELITE descending device without hoist 170 m rope
1028766	88	Miller SafEscape ELITE descending device without hoist 180 m rope
1028769	88	Miller SafEscape ELITE descending device with hoist 20 m rope
1028770	88	Miller SafEscape ELITE descending device with hoist 30 m rope
1028771	88	Miller SafEscape ELITE descending device with hoist 40 m rope
1028772	88	Miller SafEscape ELITE descending device with hoist 50 m rope
1028773	88	Miller SafEscape ELITE descending device with hoist 60 m rope
1028774	88	Miller SafEscape ELITE descending device with hoist 70 m rope
1028775	88	Miller SafEscape ELITE descending device with hoist 80 m rope
1028776	88	Miller SafEscape ELITE descending device with hoist 90 m rope
1028777	88	Miller SafEscape ELITE descending device with hoist 100 m rope
1028778	88	Miller SafEscape ELITE descending device with hoist 110 m rope
1028779	88	Miller SafEscape ELITE descending device with hoist 120 m rope
1028780	88	Miller SafEscape ELITE descending device with hoist 130 m rope
1028781	88	Miller SafEscape ELITE descending device with hoist 140 m rope
1028782	88	Miller SafEscape ELITE descending device with hoist 150 m rope
1028783	88	Miller SafEscape ELITE descending device with hoist 160 m rope

REF.	P.	DESIGNATION
1028784	88	Miller SafEscape ELITE descending device with hoist 170 m rope
1028785	88	Miller SafEscape ELITE descending device with hoist 180 m rope
1028788	88	Miller SafEscape ELITE descending device with hoist & ladder adapter 20 m rope
1028789	88	Miller SafEscape ELITE descending device with hoist & ladder adapter 30 m rope
1028790	88	Miller SafEscape ELITE descending device with hoist & ladder adapter 40 m rope
1028791	88	Miller SafEscape ELITE descending device with hoist & ladder adapter 50 m rope
1028792	88	Miller SafEscape ELITE descending device with hoist & ladder adapter 60 m rope
1028793	88	Miller SafEscape ELITE descending device with hoist & ladder adapter 70 m rope
1028794	88	Miller SafEscape ELITE descending device with hoist & ladder adapter 80 m rope
1028795	88	Miller SafEscape ELITE descending device with hoist & ladder adapter 90 m rope
1028796	88	Miller SafEscape ELITE descending device with hoist & ladder adapter 100 m rope
1028797	88	Miller SafEscape ELITE descending device with hoist & ladder adapter 110 m rope
1028798	88	Miller SafEscape ELITE descending device with hoist & ladder adapter 120 m rope
1028799	88	Miller SafEscape ELITE descending device with hoist & ladder adapter 130 m rope
1028800	88	Miller SafEscape ELITE descending device with hoist & ladder adapter 140 m rope
1028801	88	Miller SafEscape ELITE descending device with hoist & ladder adapter 150 m rope
1028802	88	Miller SafEscape ELITE descending device with hoist & ladder adapter 160 m rope
1028803	88	Miller SafEscape ELITE descending device with hoist & ladder adapter 170 m rope
1028804	88	Miller SafEscape ELITE descending device with hoist & ladder adapter 180 m rope
1028807	89	Rescue rope grab
1029350	89	Miller SafEscape ELITE rescue KIT
1029502	84	TOTEM aluminium post
1029503	84	TOTEM stainless steel plate
1029715	62	Twin Turbo D-ring connector
1029716	62	Twin Turbo D-Ring connector : 2 TurboLite (1018013) with 2 scaffhook (65mm)
1030940	97	Climbers Helmet - White
1031000	49	DuraFlex® MA60 - 3 Point - XS
1031001	49	DuraFlex® MA60 - 3 Point - S/M
1031002	49	DuraFlex® MA60 - 3 Point - L/XL
1031003	49	DuraFlex® MA60 - 3 Point - XXL
1100210	96	Tool Bandit™ 12 pieces
1100211	96	Miller Relief step™

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